



February 13, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Eland 32 18 33 RN State Com #124H
Incident Number nAPP2332557077
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document excavation and soil sampling activities performed at the Eland 32 18 33 RN State Com #124H (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of produced water and crude oil onto the well pad. Based on field observation following excavation, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2332557077 until the Site is reconstructed and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 32, Township 18 South, Range 33 East, in Lea County, New Mexico (32.69798306°, -103.6803862°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On November 21, 2023, a nearby hydraulic fracturing operation caused a pressure buildup in the system that disabled the blowout prevention unit and resulted in the failure of the packing case. As a result, approximately 991 barrels (bbls) of produced water and 110 bbls of crude oil were released on to the pad; 126 bbls of produced water and 14 bbls of crude oil were recovered immediately upon discovery of the release. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Release Notification Form C-141 (Form C-141) on November 21, 2023, and the release was assigned Incident Number nAPP2332557077. The Form C-141 is included in Appendix A.

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 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) dry well CP-1857 POD1, with a depth to water measurement of greater than

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107 feet below ground surface (bgs). The well is located 147 feet north of the Site. All wells used to establish depth to groundwater are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 3.7 miles northeast 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 not within 1,000 feet of a freshwater well or spring; however, dry well CP-1857 POD1 as owned by Matador, is within 1,000 feet and was installed as a depth-to-water boring and not for domestic or agricultural use. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, 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: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad 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.

Due to the areal extent of the impacted area (28,732 square feet), Matador and Ensolum requested a sampling frequency variance of 400 square feet for confirmation floor samples and every 200 square feet for sidewall samples from the NMOCD on December 13, 2023. On December 20, 2023, NMOCD accepted the sampling variance request, which NMOCD substantiated by the depth-to-water measurement established by boring CP-1857 POD1. Matador believes this variance has provided equal or better protection of public health, the environment, and groundwater.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On November 21 and 22, 2023, Ensolum personnel were onsite to map the release extent and begin delineation sampling of the release area. Delineation soil samples SS01 through SS05 were collected at the ground surface (0 feet bgs) to verify the lateral extent of the release area. Two pothole samples, PH01 and PH02, were advanced via backhoe to depths of 11.5 feet and 3 feet bgs, respectively, to verify the vertical extent of the release area. One borehole (BH01) was advanced with hand auger to a depth of 4 feet bgs within the release extent. Soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and Mohr's titration method. All potholes and delineation soil sample locations are depicted on Figure 2. Field screening results and observations for the potholes and borehole were logged on lithologic/soil sampling logs, which are included in Appendix C. A photographic log including delineation and excavation activities can be found in Appendix D.

The delineation 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

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transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents 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.

Prior to beginning excavation activities at the Site, an archaeological inspection was conducted by Beaver Creek Archaeology (NMCRIS Activity numbers: 136902, 139264, and 151315). Due to a lack of cultural findings within 100 feet of the Site, and existing ground disturbance on pad, no additional cultural review was recommended. The project was approved to proceed as planned under the finding that no historical properties would be affected (see Appendix E). The survey determined the release area was negative for cultural properties, and thus, Matador has taken every reasonable effort to follow the Cultural Properties Protections Rule (CPP).

From December 18 through December 21, 2023, Ensolum personnel were on the Site to complete excavation of the accessible release area. Excavation of the release area was completed with a backhoe, skid steer, hydrovac, and hand tools to depths ranging from the ground surface to 2 feet bgs. Following removal of impacted soil, Ensolum personnel collected 71, 5-point composite soil samples representing up to 400 square feet from the pad floor and two from the sidewall samples. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Two sidewall samples (SW01 and SW02) were collected from the edge of the release extent at depths ranging from the ground surface to 2 feet bgs. One borehole (BH03) was advanced within the area of requested deferral. Excavation confirmation floor, sidewall, and borehole soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

A total of approximately 480 cubic yards of impacted soil was removed during excavation activities to the maximum extent practicable (MEP). The final excavation extent measured approximately 28,900 square feet. The impacted soil was removed during the excavation activities and was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing. Following deferral, Matador intends to complete remediation of the on-pad and off-pad spill areas in accordance with the site Closure Criteria and according to the reclamation requirement.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS05) collected at 0 feet bgs were all in compliance with the strictest Closure Criteria for the Site per NMOCD Table I. Laboratory analytical results for all excavation floor confirmation samples (FS01 through FS71) were in compliance with the Closure Criteria for the Site, with the exception of floor confirmation samples FS47 and FS48 for TPH-GRO and TPH DRO and total TPH, respectively. These sample locations are in the direct vicinity of production equipment, limiting further excavation. Vertical delineation in compliance with the strictest Closure Criteria was achieved in PH01, PH02, BH01, and BH03 at depths of 11.5, 2, 2, and 6 feet bgs, respectively.

Excavation floor and sidewall confirmation samples (FS01 through FS07, SW01 and SW02) comprise the extent of the release off-pad. Laboratory analytical results for all off-pad excavation floor and sidewall confirmation samples (FS01 through FS07, SW01 and SW02) were in compliance with the strictest Closure Criteria per 19.15.29.13.D (1) NMAC. The laboratory analytical results are summarized in Tables 1, 2, and 3 and the complete laboratory analytical reports are included in Appendix F. All sampling notifications to NMOCD are additional correspondence is included in Appendix G.

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RECLAMATION PLAN

The releases occurred off and on pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad 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. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: Kermit-Palomas fine sands land complex, 0 to 12 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on February 6, 2024;
- 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: NMSLO Sandy (S) seed mix;
- 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:
 - The placement of wattles 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;
- Backfilling of the excavation has already been completed.
- Seeding is anticipated to be completed in the Spring 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. NMSLO 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 Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved 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 will also be submitted to NMSLO for final inspection and release.

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DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, process piping, the supports beneath them, and the well head preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 1,271 square feet, and assuming a depth of 6 feet based on the analytical results from delineation borehole BH03, a total of approximately 282 cubic yards of impacted soil remains in place. Soil in the vicinity of floor confirmation soil samples FS47 and FS48 are included in this deferment request due to the proximity of production equipment and safety concerns of excavating deeper, which has the potential to destabilize the equipment and harm workers and/or the environment. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment and the well head, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS05 at 0 feet bgs and vertically delineated by borehole samples BH01 and BH03 at 2 feet and 6 feet bgs, respectively, and pothole samples PH01 and PH02 at 11.5 feet and 3 feet bgs, respectively.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, and all accessible impacted soil was removed during the excavation activities. Any gross impacts were removed via scraping of the ground surface. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2332557077 until final reclamation of the well pad or major construction, whichever comes first.

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
Senior Engineer



Daniel R. Moir, P.G.
Senior Managing Geologist

cc: Clinton Talley, Matador Production Company
NMSLO

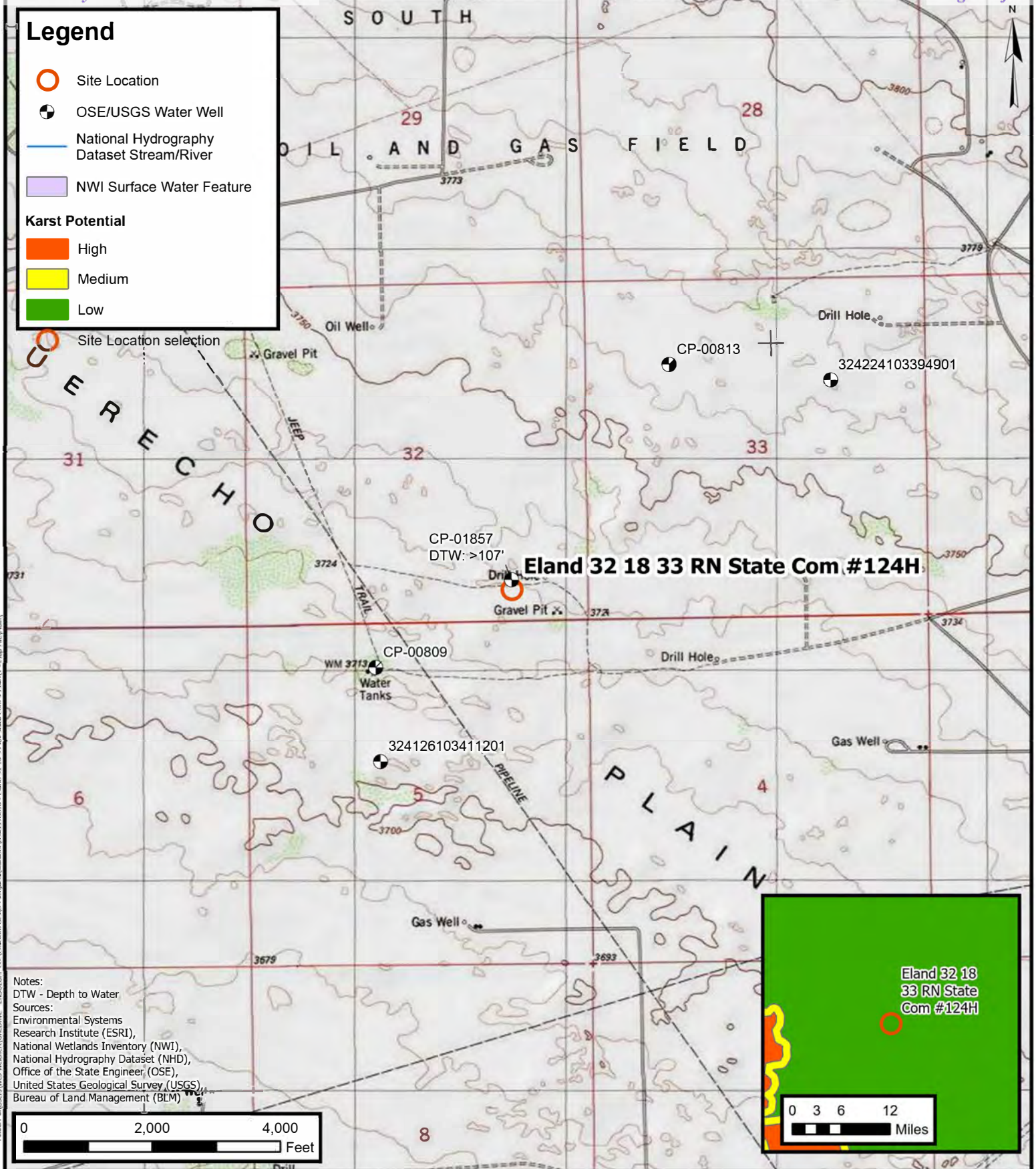
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Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Delineation Soil Sample Analytical Results
Table 2	Excavation Soil Sample Analytical Results
Table 3	Sidewall Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Referenced Wells
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	NMSLO Cultural Resources Cover Sheet
Appendix F	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix G	NMOCD Correspondence



FIGURES

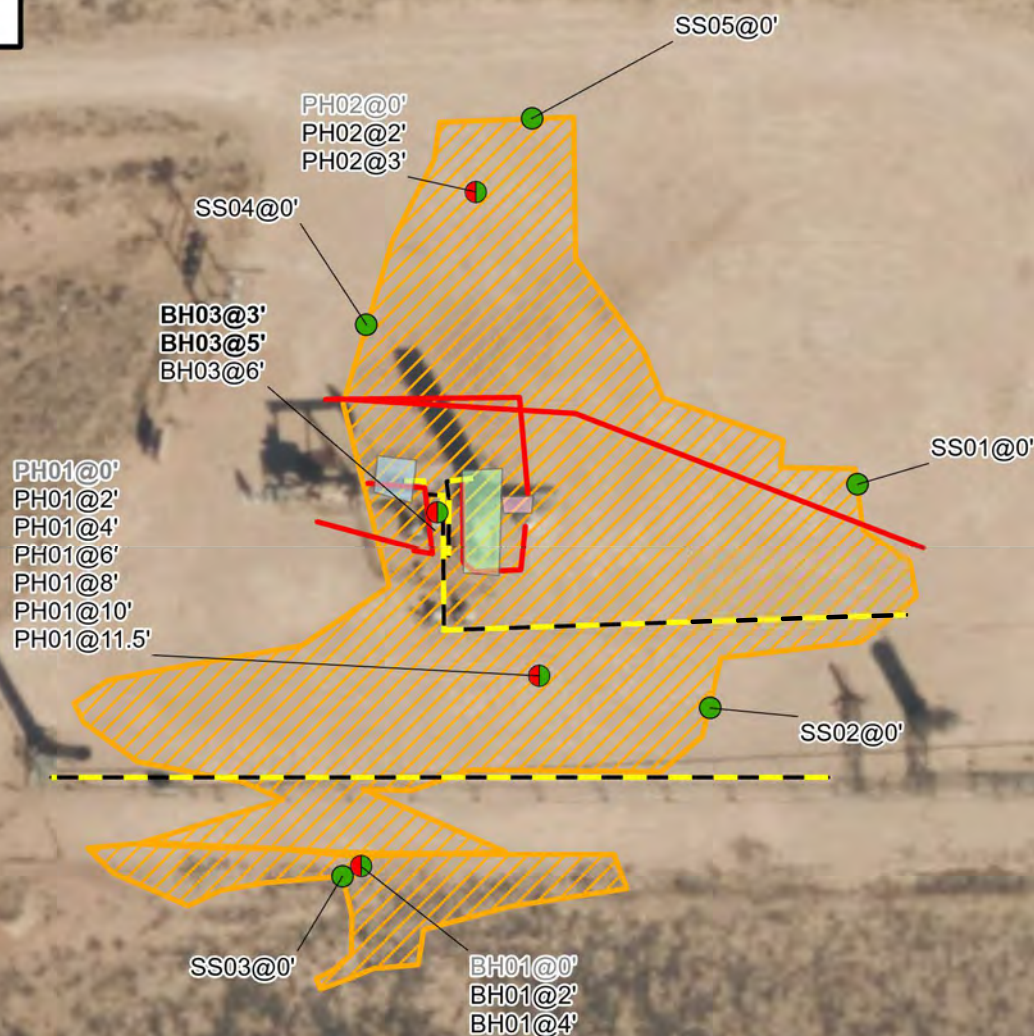


Site Receptor Map
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Incident Number: nAPP2332557077
Unit P, Section 32, T 18S, R 33E
Lea Co, New Mexico, United States

FIGURE
1

Legend

- Delineation Soil Sample Compliant with Closure Criteria
- Delineation Soil Sample with Initial Concentrations Exceeding Closure Criteria
- Electric Utility Line
- - - Oil and Gas Utility Line
- Release Extent
- Control panel
- Pumpjack
- Wellhead cellar



Notes:

Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 15 30 60 90 120
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

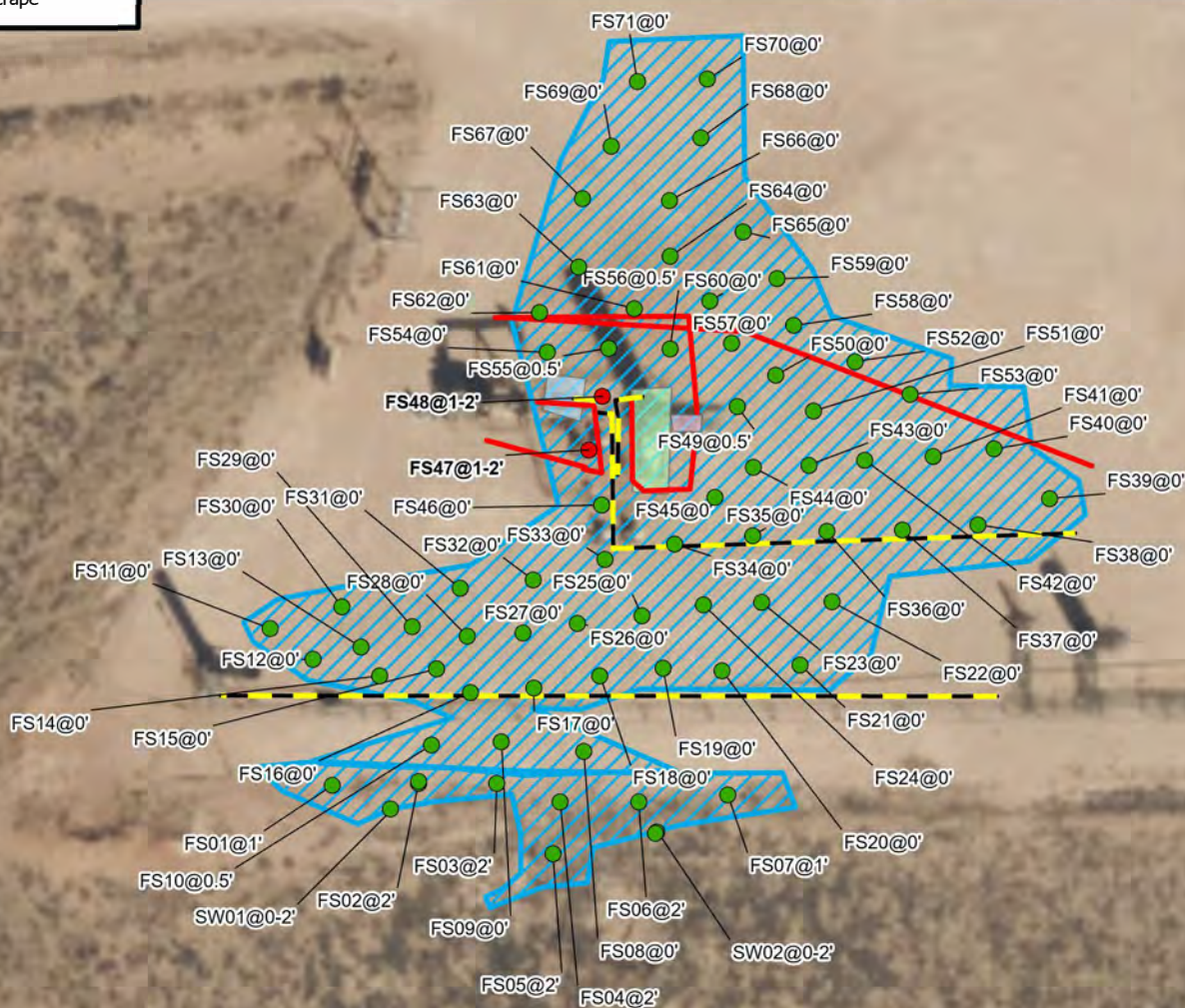
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FIGURE

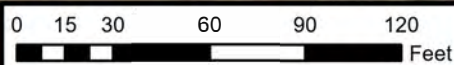
2

Legend

- Confirmation Soil
- Samples Compliant with Closure Criteria
- Confirmation Soil Sample in Exceedance of Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Control panel
- Pumpjack
- Wellhead cellar
- Surface Scrape



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

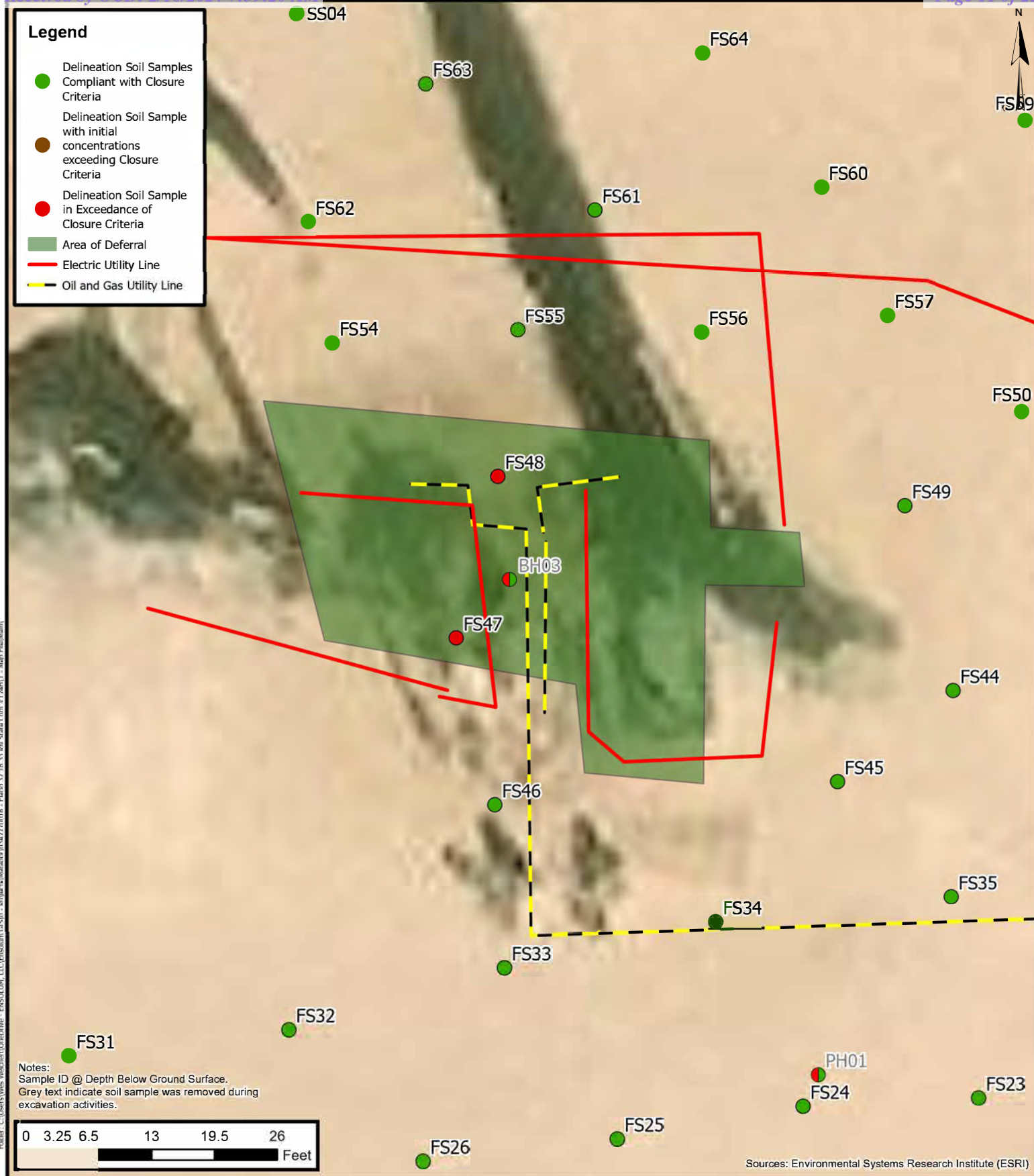


Confirmation Soil Sample Locations

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FIGURE

3



Area of Requested Deferral

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FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
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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	20,000
Delineation Soil Samples										
SS01	11/23/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	60.5
SS02	11/23/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	59.7
SS03	11/23/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
SS04	11/23/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	224
SS05	11/23/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	33
BH01	11/23/2023	0	<0.0250	<0.0500	<20.0	36.8	<50.0	36.8	36.8	1,280
BH01	11/23/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	464
BH01	11/23/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
PH01	11/22/2023	0	22	494.7	2,150	11,900	3,220	14,050	17,270	2,100
PH01	11/22/2023	2	<0.0250	0.0295	<20.0	<25.0	<50.0	<25.0	<20.0	893
PH01	11/22/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	1,120
PH01	11/22/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	1,570
PH01	11/22/2023	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	637
PH01	11/22/2023	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	982
PH01	11/22/2023	11.5	<0.0250	0.813	<20.0	466	145.0	466	611	529
PH02	11/23/2023	0	0.0265	0.3425	<20.0	111	<50.0	<25.0	<20.0	1,850
PH02	11/23/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
PH02	11/23/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
BH03	12/20/2023	3	<0.0250	<0.0500	<20.0	3,710	2,330	3,710	6,040	545
BH03	12/20/2023	5	<0.0250	<0.0500	<20.0	728	462	728	1,190	458
BH03	12/21/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	319

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.

* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Eland 32 18 33 RN State Com #124H
 Matador Production Company
 Lea 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	20,000
Excavation Floor Soil Samples										
FS01	12/18/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
FS02	12/19/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
FS03	12/19/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	181
FS04	12/19/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.9
FS05	12/19/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS06	12/19/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	109
FS07	12/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.8
FS08	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	610
FS09	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	347
FS10	12/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	911
FS11	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	658
FS12	12/20/2023	0	<0.0250	<0.0500	<20.0	68.9	<50.0	68.9	68.9	414
FS13	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	423
FS14	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	956
FS15	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,140
FS16	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,080
FS17	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,490
FS18	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,570
FS19	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,420
FS20	12/18/2023	0	<0.0250	<0.0500	<20.0	29.5	<50.0	29.5	29.5	3,840
FS21	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,040
FS22	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,380
FS23	12/18/2023	0	<0.0250	<0.0500	<20.0	144	<50.0	144	144	2,660
FS24	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,430
FS25	12/18/2023	0	<0.0250	<0.0500	<20.0	287	<50.0	287	287	1,460
FS26	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,370
FS27	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	959
FS28	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	842
FS29	12/20/2023	0	<0.0250	<0.0500	<20.0	30.0	<50.0	30.0	30.0	952
FS30	12/20/2023	0	<0.0250	<0.0500	<20.0	27.2	<50.0	27.2	27.2	515
FS31	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	186



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - CONT'D
 Eland 32 18 33 RN State Com #124H
 Matador Production Company
 Lea 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	20,000
Excavation Floor Soil Samples										
FS32	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122
FS33	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	428
FS34	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	551
FS35	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	993
FS36	12/19/2023	0	<0.0250	<0.0500	<20.0	86.7	97.5	86.7	184.2	345
FS37	12/18/2023	0	<0.0250	<0.0500	<20.0	97.3	252.0	97.3	349.3	585
FS38	12/18/2023	0	<0.0250	<0.0500	<20.0	201	<50.0	201	201	377
FS39	12/18/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	455
FS40	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	699
FS41	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	878
FS42	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	499
FS43	12/19/2023	0	<0.0250	<0.0500	<20.0	142	<50.0	142	142	1,590
FS44	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	109
FS45	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
FS46	12/20/2023	0	<0.0250	<0.0500	<20.0	33.6	<50.0	33.6	33.6	1,140
FS47	12/20/2023	1-2	<0.0250	0.495	<20.0	1,420	878.0	1,420	2,295	374
FS48	12/21/2023	1-2	<0.0250	<0.0500	302	6,800	2,290.0	7,102	9,392	693
FS49	12/21/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241
FS50	12/20/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,150
FS51	12/19/2023	0	<0.0250	<0.0500	<20.0	176	59.9	176	236	927
FS52	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,260
FS53	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	572
FS54	12/21/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	850
FS55	12/21/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	172
FS56	12/21/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.0
FS57	12/21/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,120
FS58	12/19/2023	0	<0.0250	<0.0500	<20.0	26.0	<50.0	26.0	26.0	2,240
FS59	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	544
FS60	12/21/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	504
FS61	12/21/2023	0	<0.0250	<0.0500	<20.0	52.9	<50.0	52.9	52.9	1,030
FS62	12/21/2023	0	<0.0250	<0.0500	<20.0	256	464	256	720	624



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - CONT'D
 Eland 32 18 33 RN State Com #124H
 Matador Production Company
 Lea 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	20,000
Excavation Floor Soil Samples										
FS63	12/21/2023	0	<0.0250	<0.0500	<20.0	29.1	<50.0	29.1	29.1	1,420
FS64	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	192
FS65	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	371
FS66	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	399
FS67	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,080
FS68	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	645
FS69	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	832
FS70	12/19/2023	0	<0.0250	<0.0500	<20.0	35.2	61.6	35.2	96.8	503
FS71	12/19/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	541

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.

* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Eland 32 18 33 RN State Com #124H
 Matador Production Company
 Lea 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	20,000
Sidewall Soil Samples										
SW01	12/21/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.7
SW02	12/21/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

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.

* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2332557077
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # nAPP2332557077
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.69798306 Longitude -103.6803862
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Eland 32 18 33 RN State Com #124H	Site Type Oil Well
Date Release Discovered 11/21/2023	API# 30-025-43293

Unit Letter	Section	Township	Range	County
P	32	18S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 110.07 bbls	Volume Recovered (bbls) 14 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 990.62 bbls	Volume Recovered (bbls) 126 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Communication from neighboring frac ops hit the Eland 124H and the BOP and packing could not hold the pressure.

$$BBL\ Estimate = \left(\text{Saturated Soil Volume (ft}^3\text{)} / 4.21 \left(\frac{\text{ft}^3}{\text{bbl}} \text{ equivalent} \right) \right) \times \text{Estimated Soil Porosity (\%)} \\ + \text{Recovered Fluids (bbl)}$$

On-Pad ((24,789 x 0.5) / 4.21)) x 0.28 = 824.33 bbls + volume recovered (140 bbls) = 964.33 Off-Pad ((3,943 x 0.416) / 4.21)) x 0.35 = 136.36 bbls
Total bbls: 1,100.69

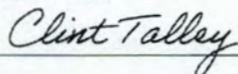
State of New Mexico
Oil Conservation Division

Incident ID	nAPP 2332557077
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 11/21/2023 via website.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>11/21/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>11/21/2023</u>

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 287804

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 287804
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/21/2023



APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2024 NOV 15 2:20 PM -10

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1857			
	WELL OWNER NAME(S) Matador Production Company (John Hurt)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5400 LBJ Freeway, Suite 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32°	MINUTES 41'	SECONDS 54.26" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE -103°	40'	49.46" W	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE SE Sec. 32 T18S R33E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 11/10/20	DRILLING ENDED 11/10/20	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 107	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	59	±8.5	Boring- HSA	--	--	--	--
	59	107	±4.5	Boring- Air Rotary	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1857	POD NO.	1	TRN NO.	68296
LOCATION	18S.33E.32.443			WELL TAG ID NO.	PAGE 1 OF 2

1. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	CP-1857	POD NO.	1	TRN NO.	1081296
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LOCATION	WELL TAG ID NO	PAGE 2 OF 2
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2020-11-19_CP-01857-POD1_Well Record and Log-for sign






Final Audit Report

2020-11-19

Created: 2020-11-19
By: Lucas Middleton (lucas@atkinseng.com)
Status: Signed
Transaction ID: CBJCHBCAABAAZj956KP2sgGb9UtoKqVEqwp4jz28N41y

05E 07T NOV 19 2020 PM 01:45

"2020-11-19_CP-01857-POD1_Well Record and Log-for sign" History


-  Document created by Lucas Middleton (lucas@atkinseng.com)
2020-11-19 - 5:06:16 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-11-19 - 5:06:31 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2020-11-19 - 5:08:09 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-11-19 - 5:08:27 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2020-11-19 - 5:08:27 PM GMT



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00809 POD1	2	1	05	19S	33E	623048	3618206*	

Driller License:	122	Driller Company:	UNKNOWN
Driller Name:	UNKNOWN, UNKNOWN		
Drill Start Date:		Drill Finish Date:	12/31/1965
Log File Date:		PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.00	Depth Well:	300 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	8 GPM
		Depth Water:	

*UTM location was derived from PLSS - see Help

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

11/22/23 2:40 PM

POINT OF DIVERSION SUMMARY

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

CAPITAN BASIN

BASIN NAME

Declaration No. CP-809 Date received August 4, 1993

STATEMENT

1. Name of Declarant KENNETH SMITH
Mailing Address Box 764 - CARLSBAD, N.M. 88220
County of LEA, State of NEW MEXICO
2. Source of water supply SHALLOW WATER Aquifer
(artesian or shallow water aquifer)
3. Describe well location under one of the following subheadings:
a. LEA $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 5 Twp. 19S Rge. 33E N.M.P.M., in _____ County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone _____
in the _____ Grant.
On land owned by KENNETH SMITH INC
4. Description of well: date drilled NA driller NA depth 300 feet.
outside diameter of casing 6 inches; original capacity NA gal. per min.; present capacity 8 gal. per min.; pumping lift 280 feet; static water level NA feet (above) (below) land surface;
make and type of pump WINDMILL - 234 PUMP
make, type, horsepower, etc., of power plant _____
Fractional or percentage interest claimed in well 100%
5. Quantity of water appropriated and beneficially used 3 (acre feet per acre) (acre feet per annum) for STOCK purposes.
6. Acreage actually irrigated _____ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use PRIOR TO 1965 and since that time has been used fully and continuously on all of the above described lands or for the above described purposes except as follows: _____

8. Additional statements or explanations Section #5

I, KENNETH SMITH being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

Kenneth Smith, declarant.

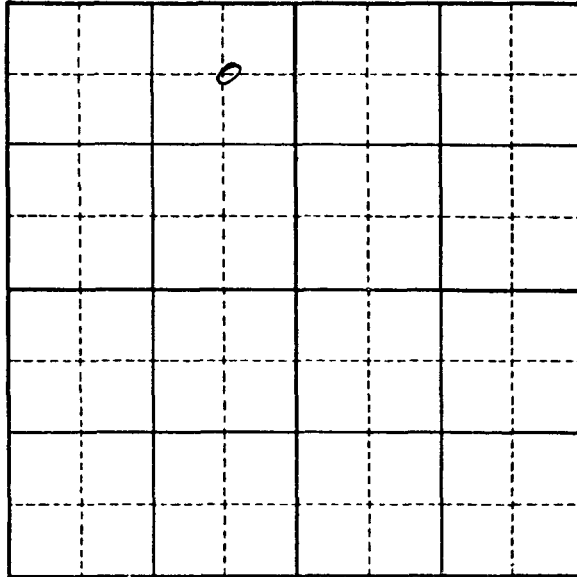
Subscribed and sworn to before me this 2nd day of August, A.D. 1993

My commission expires 4-7-96 Jana Reid Notary Public

FILED
UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM.
ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) 5, Township 19 S, Range 33 E N. M. P. M.



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest $2\frac{1}{2}$ acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

20 5 28E

SK



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ELUID MARTINEZ
STATE ENGINEER

ROSWELL

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
(505) 622-6521

August 5, 1993

Files: CP-805; CP-806; CP-807; CP-808; CP-809;
CP-810; CP-811; CP-812; CP-813; CP-814

Kenneth Smith
Box 764
Carlsbad, NM 88220

Dear Mr. Smith:

Enclosed are your copies of Declarations of Owner of Underground Water Right as numbered above, which have been filed for record in the office of the State Engineer.

Please refer to these numbers in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

Yours very truly,

Johnny R. Hernandez
Basin Supervisor

JRH/fh
Encls.

cc: Santa Fe

563318
10 10 49 AM
DISTRICT II
OFFICE
1993



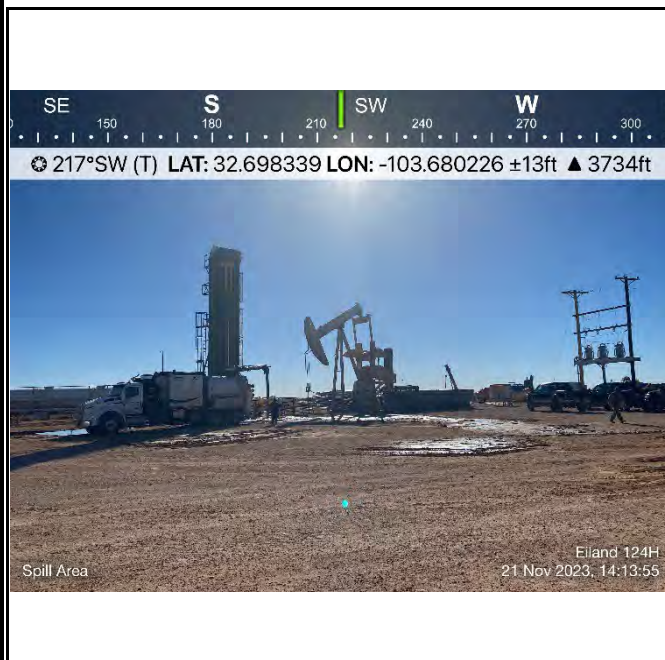
APPENDIX C

Photographic Log



Photographic Log

Matador Production Company
Eland 32 18 33 RN State Com #124H
nAPP2332557077



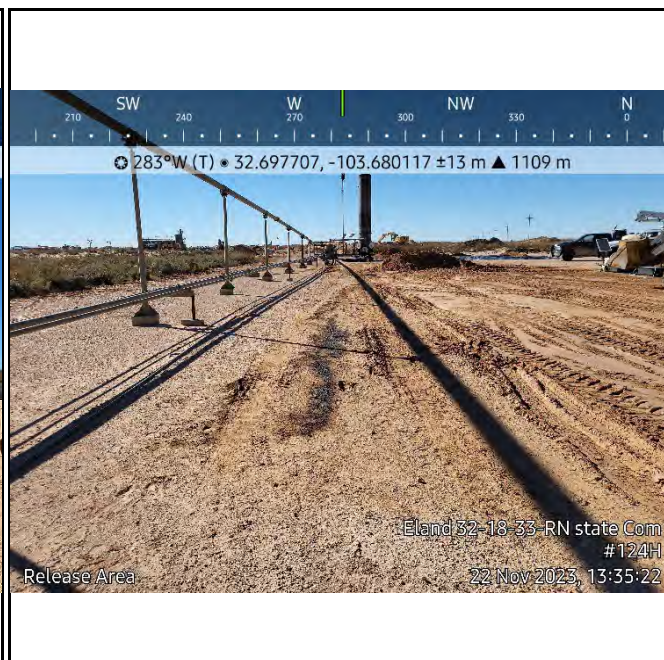
Photograph 1 Date: 11/21/2023
Description: Initial Visit, Release Area
View: Southwest



Photograph 2 Date: 11/21/2023
Description: Initial Visit, Off-pad Release Area
View: East



Photograph 3 Date: 11/21/2023
Description: Initial Recovery Efforts
View: Northwest



Photograph 4 Date: 11/22/2023
Description: Release Area
View: West



Photographic Log

Matador Production Company
Eland 32 18 33 RN State Com #124H
nAPP2332557077



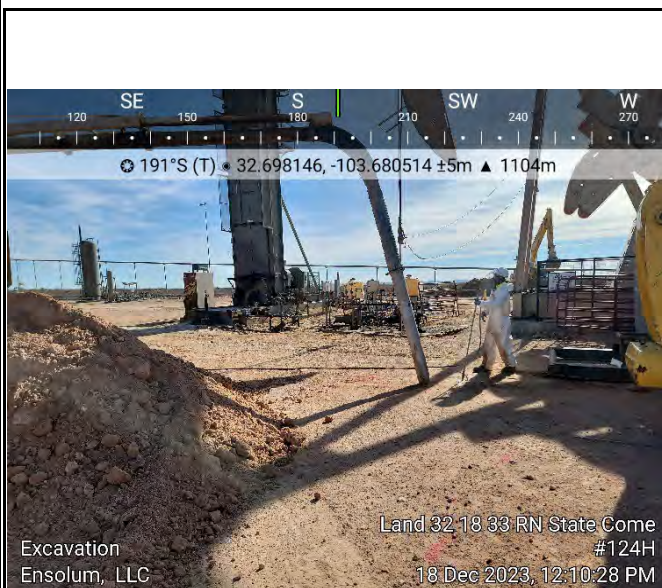
Photograph 5
Description: Release Area
View: North

Date: 11/22/2023



Photograph 6
Description: PH02
View: Northeast

Date: 11/22/2023



Photograph 7
Description: Excavation and Hydrovacing
View: South

Date: 12/18/2023



Photograph 8
Description: Excavation Area
View: Southwest

Date: 12/18/2023



Photographic Log

Matador Production Company
Eland 32 18 33 RN State Com #124H
nAPP2332557077



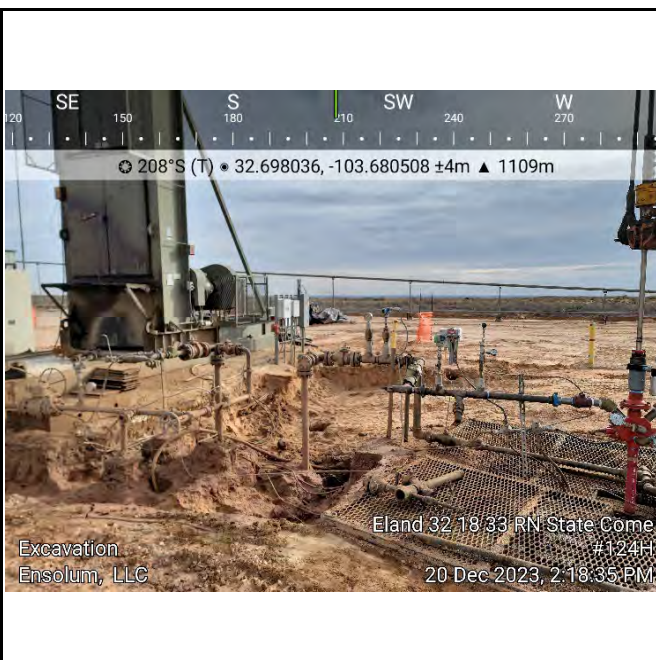
Photograph 9 Date: 12/19/2023
Description: Off-pad Excavation Area
View: Southeast



Photograph 10 Date: 12/19/2023
Description: Excavation Area
View: Southeast



Photograph 11 Date: 12/20/2023
Description: Skidsteer and Well Head
View: West

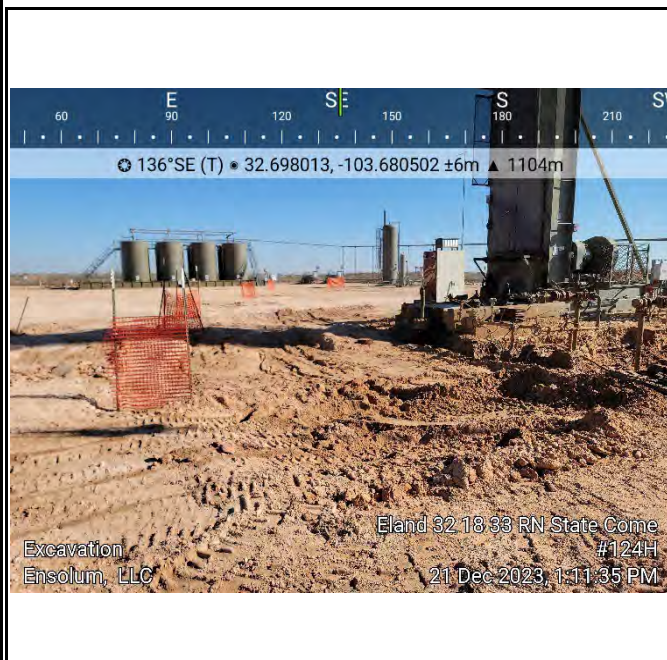


Photograph 12 Date: 12/20/2023
Description: Well Head
View: Southwest



Photographic Log

Matador Production Company
Eland 32 18 33 RN State Com #124H
nAPP2332557077



Photograph 13 Date: 12/21/2023
Description: On-Pad Scrape Area
View: Southeast



Photograph 14 Date: 12/21/2023
Description: Well Head
View: Southwest



Photograph 15 Date: 12/21/2023
Description: On-Pad Scrape Area and Well Head
View: North





Photograph 16 Date: 12/21/2023
Description: BH03; Excavation Area
View: Northwest





APPENDIX D

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 11/22/2023	
								Site Name: Eland 32-18-33 RN State Com #124H			
								Incident Number: nAPP2332557077			
								Job Number: 03A2270018			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.697651, -103.680532								Hole Diameter: 23"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	NA	NA	N	BH01	0	0	SM	Light to med brown in color, fine to medium fine grain size, dry, non-plastic, noncohesive, massive, uniform, alluvial, sharp			
M	650	NA	N	BH01	1	1	SM	Mostly med brn to red in color, fine to very fine grain size, moist, non-plastic, noncohesive, massive, uniform, alluvial, sharp			
M	650	NA	N	BH01	2	2	SM				
M	235	28	N	BH01	3	3	SM				
M	ND	NA	N	BH01	4	4	SM				
Total Depth @ 4 ft bgs.											

								Sample Name: PH01		Date: 11/22/2023	
								Site Name: Eland 32-18-33 RN State Com #124H			
								Incident Number: nAPP2332557077			
								Job Number: 03A2270018			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backhoe	
Coordinates: 32.697813, -103.680348								Hole Diameter: 2'		Total Depth: 11.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	NA	NA	Y	PH01	0	0	CCHE	Caliche Pad			
D	1,109	NA	N	PH01	1	1	SM	Mostly med brn to red in color, fine to very fine grain size, dry, non-plastic, noncohesive, massive, uniform, alluvial, sharp			
D	1,299	NA	N	PH01	2	2	SM				
D	1,299	NA	N	PH01	3	3	SM				
D	1,299	NA	N	PH01	4	4	SM				
M	1,350	NA	N	PH01	5	5	SM				
M	1,814	NA	N	PH01	6	6	SM	White in color, fine to medium grain size, moist, non-plastic, noncohesive, massive, uniform, alluvial, gradual			
M	NA	NA	N	PH01	7	7	SM				
M	896	NA	N	PH01	8	8	SM				
M	548	NA	N	PH01	9	9	SM	Primarily grey with some red in color, fine to very fine grain size, moist, medium plasticity, cohesive, massive, uniform, alluvial, sharp			
M	926	NA	N	PH01	10	10	SM				
M	677	NA	N	PH01	11	11	SM				
M	493	NA	N	PH01	11.5	11.5	SM	Primarily red with some grey in color, fine to very fine grain size, moist, medium plasticity, cohesive, massive, uniform, alluvial, gradual			

								Sample Name: PH02		Date: 11/22/2023	
								Site Name: Eland 32-18-33 RN State Com #124H			
								Incident Number: nAPP2332557077			
								Job Number: 03A2270018			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Backhoe	
Coordinates: 32.698229, 103.680407								Hole Diameter: 2'		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
W	NA	NA	Y	PH02	0	0	CCH	Caliche Pad			
M	ND	6	N	PH02	1	1	SM	Mostly med brn to red in color, fine to very fine grain size, dry, non-plastic, noncohesive, massive, uniform, alluvial, sharp			
M	ND	NA	N	PH02	2	2	SM				
M	ND	NA	N	PH02	3	3	SM				
Total Depth @ 3 ft bgs.											

								Sample Name: BH03		Date: 12/20/23	
								Site Name: Eland 32-18-33 RN State Com #124H			
								Incident Number: nAPP2332557077			
								Job Number: 03A2270018			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.6979394, -103.6804522								Hole Diameter: 3"		Total Depth: 6'	
Comments: Field screening conducted with Mohr Titration method for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH03	0	0	CCH	Caliche Pad			
M			Y	BH03	1	1	SM	Mostly med brn to red in color, fine to very fine grain size, dry, non-plastic, noncohesive, massive, uniform, alluvial, sharp			
M		9320	N	BH03	2	2	SM				
M			N	BH03	3	3	SM				
M			N	BH03	4	4	SM				
M		876	N	BH03	5	5	SM				
D		95	N	BH03	6	6	SM				
Total Depth @ 6 ft bgs.											



APPENDIX E

NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

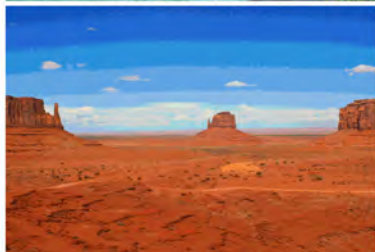


APPENDIX F

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland 32-18-33 RN State Com
#124H

Work Order: E311204

Job Number: 23052-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/29/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/29/23

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland 32-18-33 RN State Com #124H
Workorder: E311204
Date Received: 11/28/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: Eland 32-18-33 RN State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland 32-18-33 RN State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/23 15:24
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E311204-01A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SS02-0'	E311204-02A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SS03-0'	E311204-03A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SS04-0'	E311204-04A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SS05-0'	E311204-05A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
BH01-0'	E311204-06A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
BH01-2'	E311204-07A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
BH01-4'	E311204-08A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH02-0'	E311204-09A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH02-2'	E311204-10A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH02-3'	E311204-11A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 3:24:35PM

SS01-0'

E311204-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	106 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	69.6 %	70-130		11/28/23	11/28/23	S3
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	106 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	69.6 %	70-130		11/28/23	11/28/23	S3
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	84.5 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	60.5	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
---	---	-----------------------------------

SS02-0'

E311204-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	90.7 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	90.7 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	86.1 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	59.7	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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SS03-0'

E311204-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	94.3 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	94.3 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	86.7 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	ND	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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SS04-0'

E311204-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	93.0 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	93.0 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	87.1 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	224	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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SS05-0'

E311204-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	92.9 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	92.9 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	85.2 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	33.0	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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BH01-0'

E311204-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	93.2 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	93.2 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	36.8	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	88.3 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	1280	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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BH01-2'

E311204-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	11/28/23	11/28/23	
Surrogate: Toluene-d8		77.6 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	11/28/23	11/28/23	
Surrogate: Toluene-d8		77.6 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		86.7 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	464	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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BH01-4'

E311204-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	93.2 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	93.2 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	87.2 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	ND	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 3:24:35PM

PH02-0'

E311204-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	0.0265	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	0.109	0.0250	1	11/28/23	11/28/23	
Toluene	0.0810	0.0250	1	11/28/23	11/28/23	
o-Xylene	0.0455	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	0.0805	0.0500	1	11/28/23	11/28/23	
Total Xylenes	0.126	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	91.7 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	91.6 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	91.7 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	91.6 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	111	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	83.4 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	1850	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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PH02-2'

E311204-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	77.6 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	ND	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 3:24:35PM
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PH02-3'

E311204-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	115 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348036
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	115 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	78.4 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	ND	20.0	1	11/28/23	11/28/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 3:24:35PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2348036-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.1	70-130			

LCS (2348036-BS1) Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.36	0.0250	2.50		94.2	70-130			
Toluene	2.26	0.0250	2.50		90.4	70-130			
o-Xylene	1.87	0.0250	2.50		74.8	70-130			
p,m-Xylene	3.65	0.0500	5.00		73.0	70-130			
Total Xylenes	5.52	0.0250	7.50		73.6	70-130			
Surrogate: Bromofluorobenzene	0.396		0.500		79.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.1	70-130			

Matrix Spike (2348036-MS1) Source: E311203-03 Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.36	0.0250	2.50	ND	94.6	48-131			
Ethylbenzene	2.26	0.0250	2.50	ND	90.5	45-135			
Toluene	2.16	0.0250	2.50	ND	86.4	48-130			
o-Xylene	2.19	0.0250	2.50	ND	87.6	43-135			
p,m-Xylene	4.32	0.0500	5.00	ND	86.3	43-135			
Total Xylenes	6.51	0.0250	7.50	ND	86.7	43-135			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.465		0.500		93.0	70-130			

Matrix Spike Dup (2348036-MSD1) Source: E311203-03 Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.43	0.0250	2.50	ND	97.1	48-131	2.61	23	
Ethylbenzene	2.39	0.0250	2.50	ND	95.6	45-135	5.44	27	
Toluene	2.27	0.0250	2.50	ND	90.7	48-130	4.86	24	
o-Xylene	2.34	0.0250	2.50	ND	93.7	43-135	6.71	27	
p,m-Xylene	4.61	0.0500	5.00	ND	92.2	43-135	6.62	27	
Total Xylenes	6.95	0.0250	7.50	ND	92.7	43-135	6.65	27	
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 3:24:35PM

Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2348036-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.1	70-130			

LCS (2348036-BS2) Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

Matrix Spike (2348036-MS2) Source: E311203-03 Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.465		0.500		92.9	70-130			

Matrix Spike Dup (2348036-MSD2) Source: E311203-03 Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	37.8	20.0	50.0	ND	75.7	70-130	14.1	20	
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.464		0.500		92.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 3:24:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2348035-BLK1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			

LCS (2348035-BS1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2348035-MS1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.7	38-132			
Surrogate: n-Nonane	44.0		50.0		88.1	50-200			

Matrix Spike Dup (2348035-MSD1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.7	38-132	1.07	20	
Surrogate: n-Nonane	41.3		50.0		82.7	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 3:24:35PM

Anions by EPA 300.0/9056A

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 (2348041-BLK1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Chloride	ND	20.0							
LCS (2348041-BS1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2348041-MS1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Chloride	266	20.0	250	ND	106	80-120			
Matrix Spike Dup (2348041-MSD1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Chloride	267	20.0	250	ND	107	80-120	0.308	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

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/23 15:24

- S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Released to Imaging: 4/9/2024 10:54:44 AM

Received by OCD: 2/16/2024 7:59:20 AM

Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program					
Project: Elmer 32-18-33 RN State Com #124		Attention: Matador Production Company		Lab WO# E311204		Job Number 23052-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file											
Address: 3122 National Parks Hwy		City, State, Zip:										RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398											
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com											
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX	GDGC	Remarks
1330	11/22/23	S	1	SS01-0'	1						X			
0411	11/22/23	S	1	SS02-0'	2						X			
0418	11/22/23	S	1	SS03-0'	3						X			
0424	11/22/23	S	1	SS04-0'	4						X			
0428	11/22/23	S	1	SS05-0'	5						X			
1002	11/22/23	S	1	BH01-0'	6						X			
1006	11/22/23	S	1	BH01-2'	7						X			
1004	11/22/23	S	1	BH01-4'	8						X			
1242	11/22/23	S	1	PH02-0'	9						X			
1246	11/22/23	S		PH02-2'	10						X			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhamilton@ensolum.com, ehafft@ensolum.com

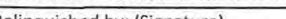
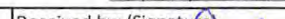




I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Sampled by: Chad Hamilton		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
	11/27/23			11-27-23	1123	Received on ice: Y / N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
	11-27-23	1630		11-27-23	1700		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
	11-27-23	2245		11/28/23	7:30	4	

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 63 of 224

[illegible]

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Sampled by: <u>Chad Hamilton</u>											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
		11/27/23				11-27-23	1123	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____			
		11-27-23	1630			11-27-23	1700				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>			
		11-27-23	2245			11/28/23	7:30				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 11/28/2023 9:12:41AM

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:	Matador Resources, LLC.	Date Received:	11/28/23 00:00	Work Order ID:	E311204
Phone:	(972) 371-5200	Date Logged In:	11/27/23 14:51	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	11/29/23 17:00 (1 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland 32-18-33 RN State Com
#124H

Work Order: E311205

Job Number: 23052-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/29/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/29/23

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland 32-18-33 RN State Com #124H
Workorder: E311205
Date Received: 11/28/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: Eland 32-18-33 RN State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland 32-18-33 RN State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/23 16:20
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0'	E311205-01A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH01-2'	E311205-02A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH01-4'	E311205-03A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH01-6'	E311205-04A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH01-8'	E311205-05A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH01-10'	E311205-06A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
PH01-11.5'	E311205-07A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 4:20:19PM

PH01-0'

E311205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2348037	
Benzene	22.0	1.25	50	11/28/23	11/29/23	
Ethylbenzene	143	1.25	50	11/28/23	11/29/23	
Toluene	181	1.25	50	11/28/23	11/29/23	
o-Xylene	49.0	1.25	50	11/28/23	11/29/23	
p,m-Xylene	99.7	2.50	50	11/28/23	11/29/23	
Total Xylenes	149	1.25	50	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	105 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	109 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2348037	
Gasoline Range Organics (C6-C10)	2150	1000	50	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	105 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	109 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2348035	
Diesel Range Organics (C10-C28)	11900	1250	50	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	3220	2500	50	11/28/23	11/28/23	
Surrogate: n-Nonane	122 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2348041	
Chloride	2100	40.0	2	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 4:20:19PM

PH01-2'
E311205-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	0.0295	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	113 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	113 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	76.8 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	893	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 4:20:19PM
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PH01-4'

E311205-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	114 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	114 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	77.0 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	1120	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 4:20:19PM

PH01-6'

E311205-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	113 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	113 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	78.4 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	1570	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 4:20:19PM

PH01-8'

E311205-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.9 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	109 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.9 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	109 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	76.7 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	637	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland 32-18-33 RN State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/29/2023 4:20:19PM

PH01-10'

E311205-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	114 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	114 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane	81.8 %	50-200		11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	982	20.0	1	11/28/23	11/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland 32-18-33 RN State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/29/2023 4:20:19PM
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PH01-11.5'
E311205-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	0.273	0.0250	1	11/28/23	11/28/23	
Toluene	0.217	0.0250	1	11/28/23	11/28/23	
o-Xylene	0.115	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	0.208	0.0500	1	11/28/23	11/28/23	
Total Xylenes	0.323	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/28/23	11/28/23	
Surrogate: Toluene-d8		106 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/28/23	11/28/23	
Surrogate: Toluene-d8		106 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2348035
Diesel Range Organics (C10-C28)	466	50.0	2	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	145	100	2	11/28/23	11/28/23	
Surrogate: n-Nonane		86.7 %	50-200	11/28/23	11/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348041
Chloride	529	20.0	1	11/28/23	11/28/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 4:20:19PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2348037-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

LCS (2348037-BS1) Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.79	0.0250	2.50		112	70-130			
Ethylbenzene	2.73	0.0250	2.50		109	70-130			
Toluene	2.82	0.0250	2.50		113	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.30	0.0500	5.00		106	70-130			
Total Xylenes	7.93	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike (2348037-MS1) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.74	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135			
Toluene	2.79	0.0250	2.50	ND	112	48-130			
o-Xylene	2.55	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.73	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

Matrix Spike Dup (2348037-MSD1) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.77	0.0250	2.50	ND	111	48-131	0.998	23	
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135	1.65	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	3.23	24	
o-Xylene	2.60	0.0250	2.50	ND	104	43-135	1.91	27	
p,m-Xylene	5.26	0.0500	5.00	ND	105	43-135	1.37	27	
Total Xylenes	7.85	0.0250	7.50	ND	105	43-135	1.55	27	
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 4:20:19PM

Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2348037-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

LCS (2348037-BS2) Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.559		0.500		112	70-130			

Matrix Spike (2348037-MS2) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	55.3	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

Matrix Spike Dup (2348037-MSD2) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	57.2	20.0	50.0	ND	114	70-130	3.44	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 4:20:19PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348035-BLK1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			

LCS (2348035-BS1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2348035-MS1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.7	38-132			
Surrogate: n-Nonane	44.0		50.0		88.1	50-200			

Matrix Spike Dup (2348035-MSD1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.7	38-132	1.07	20	
Surrogate: n-Nonane	41.3		50.0		82.7	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/2023 4:20:19PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2348041-BLK1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Chloride	ND	20.0							
LCS (2348041-BS1)					Prepared: 11/28/23 Analyzed: 11/28/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2348041-MS1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Chloride	266	20.0	250	ND	106	80-120			
Matrix Spike Dup (2348041-MSD1)					Source: E311204-03		Prepared: 11/28/23 Analyzed: 11/28/23		
Chloride	267	20.0	250	ND	107	80-120	0.308	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

Matador Resources, LLC.	Project Name:	Eland 32-18-33 RN State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/29/23 16:20

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.



Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program	
Project: Eland 32-18-33 DN State Conn #124H		Attention: Matador Production Company		Lab WO#		1D 2D 3D		Standard	
Project Manager: Ashley Giovengo		Address: on file		Job Number				CWA	
Address: 3122 National Parks Hwy		City, State, Zip:		E 311205 23052-0001				SDWA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		Analysis and Method				RCRA	
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com							
Email: agiovengo@ensolum.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX	Remarks
036	11/22/23	S	1	PH01-0'	1						X		
1046	11/22/23	S	1	PH01-2'	2						X		
CH 1046 1047	11/22/23	S	1	PH01-4'	3						X		
1121	11/22/23	S	1	PH01-6'	4						X		
1124	11/22/23	S	1	PH01-8'	5						X		
1152	11/22/23	S	1	PH01-10'	6						X		
1215	11/22/23	S	1	PH01-11.5'	7						X		
CH 11/22/23 CH S													

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@ensolum.com, ehafft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
Sampled by: <u>Eland Hamilton</u>							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<u>[Signature]</u>	11/27/23		<u>Nicelle Gough</u>	11-27-23	1123	Received on ice: <u>Y</u> / N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
<u>Nicelle Gough</u>	11-27-23	1630	<u>Andrew Musso</u>	11-27-23	1700		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
<u>Andrew Musso</u>	11-27-23	2245	<u>Jonathan</u>	11/28/23	7:30	4	

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 11/28/2023 9:22:23AM

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:	Matador Resources, LLC.	Date Received:	11/28/23 07:30	Work Order ID:	E311205
Phone:	(972) 371-5200	Date Logged In:	11/27/23 14:53	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	11/28/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: courtComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland State Com #124H

Work Order: E312135

Job Number: 23052-0001

Received: 12/20/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/29/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/29/23

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland State Com #124H
Workorder: E312135
Date Received: 12/20/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/20/2023 8:30:00AM, under the Project Name: Eland State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Eland State Com #124H

Project Number:

23052-0001

Project Manager:

Ashley Giovengo

Reported:

12/29/23 10:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-1'	E312135-01A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS16-0'	E312135-02A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS17-0'	E312135-03A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS18-0'	E312135-04A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS19-0'	E312135-05A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS20-0'	E312135-06A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS21-0'	E312135-07A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS22-0'	E312135-08A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS23-0'	E312135-09A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS24-0'	E312135-10A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS25-0'	E312135-11A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS26-0'	E312135-12A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS27-0'	E312135-13A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS28-0'	E312135-14A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS36-0'	E312135-15A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS37-0'	E312135-16A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS38-0'	E312135-17A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.
FS39-0'	E312135-18A	Soil	12/18/23	12/20/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS01-1'

E312135-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene	122 %	70-130		12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		12/20/23	12/21/23	
Surrogate: Toluene-d8	107 %	70-130		12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene	122 %	70-130		12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		12/20/23	12/21/23	
Surrogate: Toluene-d8	107 %	70-130		12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane	83.3 %	50-200		12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	148	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS16-0'

E312135-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		82.9 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	1080	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS17-0'

E312135-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		123 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		123 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		88.5 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	1490	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS18-0'
E312135-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		84.6 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	1570	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS19-0'
E312135-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		88.0 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	2420	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS20-0'

E312135-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	29.5	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		84.2 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	3840	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS21-0'

E312135-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		91.0 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	2040	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS22-0'
E312135-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		123 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		123 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		88.0 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	3380	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS23-0'

E312135-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	144	25.0	1	12/20/23	12/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/21/23	
Surrogate: n-Nonane		83.7 %	50-200	12/20/23	12/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	2660	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS24-0'

E312135-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	46.4	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		84.1 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	1430	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS25-0'

E312135-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		125 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		125 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	287	50.0	2	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	100	2	12/20/23	12/22/23	
Surrogate: n-Nonane		86.0 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	1460	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS26-0'

E312135-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		87.2 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	2370	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS27-0'

E312135-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		88.6 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	959	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS28-0'

E312135-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		110 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		110 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		84.7 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	842	20.0	1	12/22/23	12/22/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS36-0'
E312135-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		88.6 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	618	20.0	1	12/22/23	12/23/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/29/2023 10:48:05AM

FS37-0'

E312135-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		120 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	97.3	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	252	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		85.1 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	585	20.0	1	12/22/23	12/23/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS38-0'

E312135-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		105 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		105 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	201	50.0	2	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	100	2	12/20/23	12/22/23	
Surrogate: n-Nonane		86.1 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	377	20.0	1	12/22/23	12/23/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/29/2023 10:48:05AM
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FS39-0'
E312135-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351061
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/23	12/22/23	
Surrogate: n-Nonane		85.2 %	50-200	12/20/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351102
Chloride	455	20.0	1	12/22/23	12/23/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/29/2023 10:48:05AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2351061-BLK1) Prepared: 12/20/23 Analyzed: 12/21/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.612		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

LCS (2351061-BS1) Prepared: 12/20/23 Analyzed: 12/21/23

Benzene	2.71	0.0250	2.50		108	70-130			
Ethylbenzene	2.67	0.0250	2.50		107	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.64	0.0250	2.50		106	70-130			
p,m-Xylene	5.30	0.0500	5.00		106	70-130			
Total Xylenes	7.95	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.622		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2351061-MS1) Source: E312135-11 Prepared: 12/20/23 Analyzed: 12/21/23

Benzene	2.59	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135			
Toluene	2.48	0.0250	2.50	ND	99.1	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.12	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.67	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.630		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

Matrix Spike Dup (2351061-MSD1) Source: E312135-11 Prepared: 12/20/23 Analyzed: 12/21/23

Benzene	2.69	0.0250	2.50	ND	108	48-131	3.94	23	
Ethylbenzene	2.70	0.0250	2.50	ND	108	45-135	6.76	27	
Toluene	2.65	0.0250	2.50	ND	106	48-130	6.78	24	
o-Xylene	2.70	0.0250	2.50	ND	108	43-135	5.42	27	
p,m-Xylene	5.39	0.0500	5.00	ND	108	43-135	5.25	27	
Total Xylenes	8.09	0.0250	7.50	ND	108	43-135	5.31	27	
Surrogate: Bromofluorobenzene	0.624		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/29/2023 10:48:05AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351061-BLK1) Prepared: 12/20/23 Analyzed: 12/21/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.612		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

LCS (2351061-BS2) Prepared: 12/20/23 Analyzed: 12/21/23

Gasoline Range Organics (C6-C10)	55.3	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

Matrix Spike (2351061-MS2) Source: E312135-11 Prepared: 12/20/23 Analyzed: 12/21/23

Gasoline Range Organics (C6-C10)	60.0	20.0	50.0	ND	120	70-130			
Surrogate: Bromofluorobenzene	0.624		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike Dup (2351061-MSD2) Source: E312135-11 Prepared: 12/20/23 Analyzed: 12/21/23

Gasoline Range Organics (C6-C10)	57.3	20.0	50.0	ND	115	70-130	4.69	20	
Surrogate: Bromofluorobenzene	0.606		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/29/2023 10:48:05AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351055-BLK1)					Prepared: 12/20/23 Analyzed: 12/21/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.1	50-200			

LCS (2351055-BS1)					Prepared: 12/20/23 Analyzed: 12/21/23				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			

Matrix Spike (2351055-MS1)					Source: E312135-04		Prepared: 12/20/23 Analyzed: 12/21/23		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			

Matrix Spike Dup (2351055-MSD1)					Source: E312135-04		Prepared: 12/20/23 Analyzed: 12/21/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	1.49	20	
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/29/2023 10:48:05AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351102-BLK1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Chloride	ND	20.0							
LCS (2351102-BS1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2351102-MS1)					Source: E312135-03		Prepared: 12/22/23 Analyzed: 12/22/23		
Chloride	1860	20.0	250	1490	150	80-120			M4
Matrix Spike Dup (2351102-MSD1)					Source: E312135-03		Prepared: 12/22/23 Analyzed: 12/22/23		
Chloride	1820	20.0	250	1490	133	80-120	2.30	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Eland State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/29/23 10:48

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

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

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

Project Information

Chain of Custody

Client: Matador Production Company.	Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only						TAT				EPA Program			
Project: Eland State Com #124H		Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo		E312135	23052-0001								x				
Address: 3122 National Parks Hwy		Analysis and Method													RCRA
City, State, Zip: Carlsbad NM, 88220		State													
Phone: 575-988-0055	NM CO UT AZ TX														
Email: agiovengo@ensolum.com	x														
Report due by:	Remarks														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX	Remarks
12:46	12/18/2023	Soil	1 Jar	FS01 - 1'	1						X		
13:49	12/18/2023	Soil	1 Jar	FS16 - 0'	2						X		
13:47	12/18/2023	Soil	1 Jar	FS17 - 0'	3						X		
13:39	12/18/2023	Soil	1 Jar	FS18 - 0'	4						X		
13:37	12/18/2023	Soil	1 Jar	FS19 - 0'	5						X		
13:21	12/18/2023	Soil	1 Jar	FS20 - 0'	6						X		
12:55	12/18/2023	Soil	1 Jar	FS21 - 0'	7						X		
12:58	12/18/2023	Soil	1 Jar	FS22 - 0'	8						X		
12:59	12/18/2023	Soil	1 Jar	FS23 - 0'	9						X		
13:22	12/18/2023	Soil	1 Jar	FS24 - 0'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafat@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
[Signature]		12-19-23	7:10	Michelle Gayle		12-19-23	0800	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
[Signature]		12-19-23	11:15	[Signature]		12-19-23	1700				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
[Signature]		12-19-23	2330	[Signature]		12-20-23	830	4			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



envirotech

Client: Matador Production Company.	Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only				TAT				EPA Program				
Project: Eland State Com #124H		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo		E312135 280520001						x						
Address: 3122 National Parks Hwy		Analysis and Method										RCRA		
City, State, Zip: Carlsbad NM, 88220		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			NM					
Phone: 575-988-0055									GDOC	TX				
Email: agiovengo@ensolum.com										State				
Report due by:										NM	CO	UT	AZ	TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			NM	GDOC	TX	Remarks
13:32	12/18/2023	Soil	1 Jar	FS25 - 0'	11								x			
13:33	12/18/2023	Soil	1 Jar	FS26 - 0'	12								x			
13:42	12/18/2023	Soil	1 Jar	FS27 - 0'	13								x			
13:45	12/18/2023	Soil	1 Jar	FS28 - 0'	14								x			
13:01	12/18/2023	Soil	1 Jar	FS36 - 0'	15								x			
13:06	12/18/2023	Soil	1 Jar	FS37 - 0'	16								x			
13:12	12/18/2023	Soil	1 Jar	FS38 - 0'	17								x			
13:14	12/18/2023	Soil	1 Jar	FS39 - 0'	18								x			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.					
Sampled by: Cole Burton											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>Cole Burton</i>	12-19-23	7:10	<i>Michelle Gayle</i>	12-19-23	0800	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<i>Michelle Gayle</i>	12-19-23	1415	<i>Andrew</i>	12-19-23	1700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>Andrew</i>	12-19-23	2330	<i>Michelle Gayle</i>	12-20-23	830	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



Envirotech Analytical Laboratory

Printed: 12/20/2023 3:34:18PM

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:	Matador Resources, LLC.	Date Received:	12/20/23 08:30	Work Order ID:	E312135
Phone:	(972) 371-5200	Date Logged In:	12/19/23 14:38	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/28/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland State Com #124H

Work Order: E312159

Job Number: 23052-0001

Received: 12/22/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 1/2/24

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland State Com #124H
Workorder: E312159
Date Received: 12/22/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/22/2023 8:30:00AM, under the Project Name: Eland State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 01/02/24 16:23
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08-0'	E312159-01A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS09-0'	E312159-02A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS10-0.5'	E312159-03A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS11-0'	E312159-04A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS12-0'	E312159-05A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS13-0'	E312159-06A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS14-0'	E312159-07A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS15-0'	E312159-08A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS29-0'	E312159-09A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS30-0'	E312159-10A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS31-0'	E312159-11A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS32-0'	E312159-12A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS33-0'	E312159-13A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS34-0'	E312159-14A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS35-0'	E312159-15A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS40-0'	E312159-16A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS41-0'	E312159-17A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS44-0'	E312159-18A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS45-0'	E312159-19A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS46-0'	E312159-20A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS47-1-2'	E312159-21A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
FS50-0'	E312159-22A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS08-0'

E312159-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/27/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/27/23	
Toluene	ND	0.0250	1	12/22/23	12/27/23	
o-Xylene	ND	0.0250	1	12/22/23	12/27/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/27/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		12/22/23	12/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.5 %	70-130		12/22/23	12/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
<i>Surrogate: n-Nonane</i>						
	88.7 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	610	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS09-0'

E312159-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
Surrogate: n-Nonane	87.8 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	347	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS10-0.5'

E312159-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
Surrogate: n-Nonane	85.7 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	911	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS11-0'

E312159-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
Surrogate: n-Nonane	90.9 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	658	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS12-0'

E312159-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	68.9	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
Surrogate: n-Nonane	88.9 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	414	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS13-0'

E312159-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
<i>Surrogate: n-Nonane</i>						
	88.2 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	423	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS14-0'

E312159-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
Surrogate: n-Nonane	87.3 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	956	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS15-0'

E312159-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/27/23	
<i>Surrogate: n-Nonane</i>						
	86.9 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	1140	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS29-0'

E312159-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.9 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	30.0	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	86.8 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	952	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS30-0'

E312159-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	27.2	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	83.7 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	515	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS31-0'

E312159-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/27/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/27/23	
Toluene	ND	0.0250	1	12/22/23	12/27/23	
o-Xylene	ND	0.0250	1	12/22/23	12/27/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/27/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/27/23	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		12/22/23	12/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		12/22/23	12/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
Surrogate: n-Nonane	87.7 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	186	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS32-0'

E312159-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	85.5 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	122	40.0	2	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS33-0'

E312159-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	87.0 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	428	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS34-0'

E312159-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352002
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	85.9 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351105
Chloride	551	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS35-0'

E312159-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
Surrogate: n-Nonane	89.9 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	993	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS40-0'

E312159-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
Surrogate: n-Nonane	88.6 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	699	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS41-0'

E312159-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
Surrogate: n-Nonane	90.0 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	878	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS44-0'

E312159-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
Surrogate: n-Nonane	85.4 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	109	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS45-0'

E312159-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.6 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.8 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>	88.4 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	135	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS46-0'

E312159-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Benzene	ND	0.0250	1	12/22/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/28/23	
Toluene	ND	0.0250	1	12/22/23	12/28/23	
o-Xylene	ND	0.0250	1	12/22/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		12/22/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2352002	
Diesel Range Organics (C10-C28)	33.6	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	89.8 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2351105	
Chloride	1140	20.0	1	12/22/23	12/29/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 4:23:49PM

FS47-1-2'

E312159-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351099
Benzene	ND	0.0250	1	12/22/23	12/22/23	
Ethylbenzene	0.191	0.0250	1	12/22/23	12/22/23	
Toluene	0.0570	0.0250	1	12/22/23	12/22/23	
o-Xylene	0.108	0.0250	1	12/22/23	12/22/23	
p,m-Xylene	0.139	0.0500	1	12/22/23	12/22/23	
Total Xylenes	0.247	0.0250	1	12/22/23	12/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351099
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352006
Diesel Range Organics (C10-C28)	1420	125	5	12/27/23	12/27/23	
Oil Range Organics (C28-C36)	878	250	5	12/27/23	12/27/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		12/27/23	12/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2351107
Chloride	374	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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FS50-0'

E312159-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351099	
Benzene	ND	0.0250	1	12/22/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/22/23	
Toluene	ND	0.0250	1	12/22/23	12/22/23	
o-Xylene	ND	0.0250	1	12/22/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/22/23	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352006	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/27/23	12/28/23	
Surrogate: n-Nonane	105 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2351107	
Chloride	1150	20.0	1	12/22/23	12/28/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 4:23:49PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351098-BLK1) Prepared: 12/22/23 Analyzed: 12/27/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			

LCS (2351098-BS1) Prepared: 12/22/23 Analyzed: 12/27/23

Benzene	3.94	0.0250	5.00		78.9	70-130			
Ethylbenzene	3.95	0.0250	5.00		79.1	70-130			
Toluene	4.06	0.0250	5.00		81.2	70-130			
o-Xylene	4.05	0.0250	5.00		81.1	70-130			
p,m-Xylene	8.19	0.0500	10.0		81.9	70-130			
Total Xylenes	12.2	0.0250	15.0		81.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike (2351098-MS1) Source: E312159-11 Prepared: 12/22/23 Analyzed: 12/27/23

Benzene	4.11	0.0250	5.00	ND	82.2	54-133			
Ethylbenzene	4.13	0.0250	5.00	ND	82.7	61-133			
Toluene	4.24	0.0250	5.00	ND	84.9	61-130			
o-Xylene	4.24	0.0250	5.00	ND	84.8	63-131			
p,m-Xylene	8.56	0.0500	10.0	ND	85.6	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.6	70-130			

Matrix Spike Dup (2351098-MSD1) Source: E312159-11 Prepared: 12/22/23 Analyzed: 12/27/23

Benzene	4.98	0.0250	5.00	ND	99.7	54-133	19.2	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	19.3	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	19.1	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	19.5	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	19.1	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	19.3	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 4:23:49PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351099-BLK1) Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

LCS (2351099-BS1) Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.42	0.0250	5.00		88.3	70-130			
Toluene	4.42	0.0250	5.00		88.4	70-130			
o-Xylene	4.43	0.0250	5.00		88.6	70-130			
p,m-Xylene	9.00	0.0500	10.0		90.0	70-130			
Total Xylenes	13.4	0.0250	15.0		89.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			

Matrix Spike (2351099-MS1) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	4.74	0.0250	5.00	ND	94.8	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	61-133			
Toluene	4.83	0.0250	5.00	ND	96.5	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		94.9	70-130			

Matrix Spike Dup (2351099-MSD1) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	4.38	0.0250	5.00	ND	87.6	54-133	7.90	20	
Ethylbenzene	4.47	0.0250	5.00	ND	89.3	61-133	7.82	20	
Toluene	4.46	0.0250	5.00	ND	89.3	61-130	7.83	20	
o-Xylene	4.49	0.0250	5.00	ND	89.8	63-131	7.92	20	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	63-131	7.85	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.7	63-131	7.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 4:23:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351098-BLK1) Prepared: 12/22/23 Analyzed: 12/27/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

LCS (2351098-BS2) Prepared: 12/22/23 Analyzed: 12/27/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0		78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2351098-MS2) Source: E312159-11 Prepared: 12/22/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

Matrix Spike Dup (2351098-MSD2) Source: E312159-11 Prepared: 12/22/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130	0.317	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 4:23:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351099-BLK1) Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

LCS (2351099-BS2) Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2351099-MS2) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2351099-MSD2) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.7	70-130	12.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 4:23:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352002-BLK1)					Prepared: 12/27/23 Analyzed: 12/27/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

LCS (2352002-BS1)					Prepared: 12/27/23 Analyzed: 12/27/23				
Diesel Range Organics (C10-C28)	245	25.0	250		98.1	38-132			
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			

Matrix Spike (2352002-MS1)					Source: E312159-06		Prepared: 12/27/23 Analyzed: 12/27/23		
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike Dup (2352002-MSD1)					Source: E312159-06		Prepared: 12/27/23 Analyzed: 12/27/23		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	5.85	20	
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 4:23:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352006-BLK1)					Prepared: 12/27/23 Analyzed: 12/27/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2352006-BS1)					Prepared: 12/27/23 Analyzed: 12/27/23				
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike (2352006-MS1)					Source: E312171-21		Prepared: 12/27/23 Analyzed: 12/27/23		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

Matrix Spike Dup (2352006-MSD1)					Source: E312171-21		Prepared: 12/27/23 Analyzed: 12/27/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	1.69	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351105-BLK1)					Prepared: 12/22/23 Analyzed: 12/28/23				
Chloride	ND	20.0							
LCS (2351105-BS1)					Prepared: 12/22/23 Analyzed: 12/28/23				
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2351105-MS1)					Source: E312159-02		Prepared: 12/22/23 Analyzed: 12/28/23		
Chloride	550	20.0	250	347	81.0	80-120			
Matrix Spike Dup (2351105-MSD1)					Source: E312159-02		Prepared: 12/22/23 Analyzed: 12/28/23		
Chloride	565	20.0	250	347	87.0	80-120	2.67	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 4:23:49PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351107-BLK1)					Prepared: 12/22/23 Analyzed: 12/27/23				
Chloride	ND	20.0							
LCS (2351107-BS1)					Prepared: 12/22/23 Analyzed: 12/28/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2351107-MS1)					Source: E312153-02		Prepared: 12/22/23 Analyzed: 12/28/23		
Chloride	707	20.0	250	438	108	80-120			
Matrix Spike Dup (2351107-MSD1)					Source: E312153-02		Prepared: 12/22/23 Analyzed: 12/28/23		
Chloride	707	20.0	250	438	108	80-120	0.0243	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

Matador Resources, LLC.	Project Name:	Eland State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/02/24 16:23

- 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: 4/9/2024 10:54:44 AM

Received by OCD: 2/16/2024 7:59:20 AM

Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program	
Project: Eland State Comp #124H		Attention: Matador Production Company		Lab WO# E312159		1D 2D 3D		CWA SDWA	
Project Manager: Ashley Giovenego		Address: on file		Job Number 23052-0001		Standard x			
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method				RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398							
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com							
Email: agiovenego@ensolum.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:53	12/20/2023	Soil	1 Jar	FS08 - 0'	1						X		
11:52	12/20/2023	Soil	1 Jar	FS09 - 0'	2						X		
11:49	12/20/2023	Soil	1 Jar	FS10 - 0.5'	3						X		
11:06	12/20/2023	Soil	1 Jar	FS11 - 0'	4						X		
1:04	12/20/2023	Soil	1 Jar	FS12 - 0'	5						X		
1:02	12/20/2023	Soil	1 Jar	FS13 - 0'	6						X		
1:00	12/20/2023	Soil	1 Jar	FS14 - 0'	7						X		
0:58	12/20/2023	Soil	1 Jar	FS15 - 0'	8						X		
13:46	12/20/2023	Soil	1 Jar	FS29 - 0'	9						X		
11:04	12/20/2023	Soil	1 Jar	FS30 - 0'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovenego@ensolum.com, chamilton@ensolum.com, ehafat@ensolum.com

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

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
Cole Burton		12-21-23	7:05	Michelle Kaye		12-21-23	0915	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3	
Michelle Kaye		12-21-23	1300	C. G. W.		12-21-23	1500		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C	
Andrew Messo		12-21-23	2400	Andrew Messo		12-21-23	1630	4	

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Rec'd: Andrew Messo 12/22/23 830

envirotech

Page 151 of 224

Client: Matador Production Company.					Bill To		Lab Use Only						TAT				EPA Program					
Project: Eland State Comp #124H					Attention: Matador Production Company		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo					Address: on file		E 312159		23052-0001							x						
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method											RCRA				
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRQ/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	GDOC TX	State							
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com										NM	CO	UT	AZ	TX			
mail: agiovengo@ensolum.com																		Remarks				
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
13:44	12/20/2023	Soil	1 Jar	FS31 - 0'	11																	
13:42	12/20/2023	Soil	1 Jar	FS32 - 0'	12																	
13:37	12/20/2023	Soil	1 Jar	FS33 - 0'	13																	
13:35	12/20/2023	Soil	1 Jar	FS34 - 0'	14																	
13:33	12/20/2023	Soil	1 Jar	FS35 - 0'	15																	
13:21	12/20/2023	Soil	1 Jar	FS40 - 0'	16																	
13:24	12/20/2023	Soil	1 Jar	FS41 - 0'	17																	
13:33	12/20/2023	Soil	1 Jar	FS44 - 0'	18																	
12:01	12/20/2023	Soil	1 Jar	FS45 - 0'	19																	
11:56	12/20/2023	Soil	1 Jar	FS46 - 0'	20																	

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaf@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
<i>[Signature]</i>		12-21-23	7:05	<i>[Signature]</i>		12-21-23	0915	Received on ice: Y / N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
<i>[Signature]</i>		12-21-23	1300	<i>[Signature]</i>		12-21-23	1500				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
<i>[Signature]</i>		12-21-23	2400	<i>[Signature]</i>		12-21-23	1630				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Raid: al... 12/22/23 830



envirotech

Envirotech Analytical Laboratory

Printed: 12/22/2023 11:21:11AM

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:	Matador Resources, LLC.	Date Received:	12/22/23 08:30	Work Order ID:	E312159
Phone:	(972) 371-5200	Date Logged In:	12/21/23 16:30	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	01/03/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland State Com #124H

Work Order: E312160

Job Number: 23052-0001

Received: 12/22/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/2/24

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland State Com #124H
Workorder: E312160
Date Received: 12/22/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/22/2023 8:30:00AM, under the Project Name: Eland State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 01/02/24 15:04
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03-3'	E312160-01A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.
BH03-5'	E312160-02A	Soil	12/20/23	12/22/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:04:04PM
---	---	---------------------------------

BH03-3'

E312160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351099	
Benzene	ND	0.0250	1	12/22/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/22/23	
Toluene	ND	0.0250	1	12/22/23	12/22/23	
o-Xylene	ND	0.0250	1	12/22/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/22/23	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351099	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352006	
Diesel Range Organics (C10-C28)	3710	250	10	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	2330	500	10	12/27/23	12/28/23	
Surrogate: n-Nonane	96.4 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2351107	
Chloride	545	20.0	1	12/22/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 3:04:04PM

BH03-5'

E312160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351099
Benzene	ND	0.0250	1	12/22/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/22/23	12/22/23	
Toluene	ND	0.0250	1	12/22/23	12/22/23	
o-Xylene	ND	0.0250	1	12/22/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/22/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/22/23	12/22/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351099
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/22/23	12/22/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		12/22/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352006
Diesel Range Organics (C10-C28)	728	50.0	2	12/27/23	12/28/23	
Oil Range Organics (C28-C36)	462	100	2	12/27/23	12/28/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		12/27/23	12/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351107
Chloride	458	20.0	1	12/22/23	12/28/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:04:04PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351099-BLK1) Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

LCS (2351099-BS1) Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.42	0.0250	5.00		88.3	70-130			
Toluene	4.42	0.0250	5.00		88.4	70-130			
o-Xylene	4.43	0.0250	5.00		88.6	70-130			
p,m-Xylene	9.00	0.0500	10.0		90.0	70-130			
Total Xylenes	13.4	0.0250	15.0		89.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			

Matrix Spike (2351099-MS1) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	4.74	0.0250	5.00	ND	94.8	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	61-133			
Toluene	4.83	0.0250	5.00	ND	96.5	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		94.9	70-130			

Matrix Spike Dup (2351099-MSD1) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Benzene	4.38	0.0250	5.00	ND	87.6	54-133	7.90	20	
Ethylbenzene	4.47	0.0250	5.00	ND	89.3	61-133	7.82	20	
Toluene	4.46	0.0250	5.00	ND	89.3	61-130	7.83	20	
o-Xylene	4.49	0.0250	5.00	ND	89.8	63-131	7.92	20	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	63-131	7.85	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.7	63-131	7.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:04:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351099-BLK1) Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

LCS (2351099-BS2) Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2351099-MS2) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2351099-MSD2) Source: E312158-05 Prepared: 12/22/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.7	70-130	12.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:04:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352006-BLK1)					Prepared: 12/27/23 Analyzed: 12/27/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2352006-BS1)					Prepared: 12/27/23 Analyzed: 12/27/23				
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike (2352006-MS1)					Source: E312171-21		Prepared: 12/27/23 Analyzed: 12/27/23		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

Matrix Spike Dup (2352006-MSD1)					Source: E312171-21		Prepared: 12/27/23 Analyzed: 12/27/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	1.69	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:04:04PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351107-BLK1)					Prepared: 12/22/23 Analyzed: 12/27/23				
Chloride	ND	20.0							
LCS (2351107-BS1)					Prepared: 12/22/23 Analyzed: 12/28/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2351107-MS1)					Source: E312153-02		Prepared: 12/22/23 Analyzed: 12/28/23		
Chloride	707	20.0	250	438	108	80-120			
Matrix Spike Dup (2351107-MSD1)					Source: E312153-02		Prepared: 12/22/23 Analyzed: 12/28/23		
Chloride	707	20.0	250	438	108	80-120	0.0243	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

Matador Resources, LLC.	Project Name:	Eland State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/02/24 15:04

- 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.



[illegible]

Recd: *Amulya* 12/22/23 830

envirotech

Envirotech Analytical Laboratory

Printed: 12/22/2023 11:15:43AM

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:	Matador Resources, LLC.	Date Received:	12/22/23 08:30	Work Order ID:	E312160
Phone:	(972) 371-5200	Date Logged In:	12/21/23 16:39	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	01/03/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

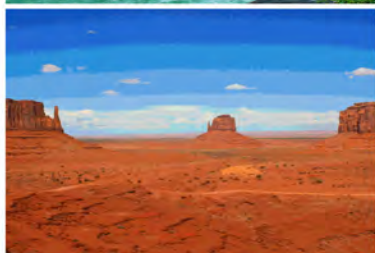
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland State Com #124H

Work Order: E312176

Job Number: 23052-0001

Received: 12/27/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 1/2/24

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland State Com #124H
Workorder: E312176
Date Received: 12/27/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/27/2023 8:00:00AM, under the Project Name: Eland State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Raina Schwanz
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Chain of Custody etc.	11

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 01/02/24 15:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03- 6'	E312176-01A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:36PM
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BH03- 6'

E312176-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2352008	
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2352008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352020	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/28/23	
Surrogate: n-Nonane	86.9 %	50-200		12/28/23	12/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2352027	
Chloride	319	20.0	1	12/28/23	12/29/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:00:36PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352008-BLK1) Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.6	70-130			

LCS (2352008-BS1) Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.6	70-130			
Toluene	4.97	0.0250	5.00		99.4	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.1	70-130			

Matrix Spike (2352008-MS1) Source: E312171-21 Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	4.59	0.0250	5.00	ND	91.8	54-133			
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133			
Toluene	4.77	0.0250	5.00	ND	95.5	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	97.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			

Matrix Spike Dup (2352008-MSD1) Source: E312171-21 Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	4.51	0.0250	5.00	ND	90.2	54-133	1.73	20	
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133	1.37	20	
Toluene	4.71	0.0250	5.00	ND	94.1	61-130	1.42	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	0.661	20	
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131	1.17	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131	1.00	20	
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:00:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352008-BLK1) Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

LCS (2352008-BS2) Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

Matrix Spike (2352008-MS2) Source: E312171-21 Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			

Matrix Spike Dup (2352008-MSD2) Source: E312171-21 Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.5	70-130	0.268	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:00:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352020-BLK1)					Prepared: 12/28/23 Analyzed: 12/28/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.0		50.0		90.0	50-200			

LCS (2352020-BS1)					Prepared: 12/28/23 Analyzed: 12/28/23				
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2352020-MS1)					Source: E312172-03		Prepared: 12/28/23 Analyzed: 12/28/23		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			

Matrix Spike Dup (2352020-MSD1)					Source: E312172-03		Prepared: 12/28/23 Analyzed: 12/28/23		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	0.00971	20	
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:36PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352027-BLK1)					Prepared: 12/28/23 Analyzed: 12/29/23				
Chloride	ND	20.0							
LCS (2352027-BS1)					Prepared: 12/28/23 Analyzed: 12/29/23				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2352027-MS1)					Source: E312175-01		Prepared: 12/28/23 Analyzed: 12/29/23		
Chloride	314	20.0	250	62.9	100	80-120			
Matrix Spike Dup (2352027-MSD1)					Source: E312175-01		Prepared: 12/28/23 Analyzed: 12/29/23		
Chloride	312	20.0	250	62.9	99.7	80-120	0.534	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

Matador Resources, LLC.	Project Name:	Eland State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/02/24 15:00

- 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.



[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.		
Sampled by: Cole Burton								
Relinquished by: (Signature) <i>Sh Burton</i>	Date 12/22/23	Time 7:18	Received by: (Signature) <i>Michelle Gayle</i>	Date 12-22-23	Time 0945	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N		
Relinquished by: (Signature) <i>Michelle Gayle</i>	Date 12-22-23	Time 1445	Received by: (Signature) <i>Sh Burton</i>	Date 12-22-23	Time 1800	T1 _____ T2 _____ T3 _____		
Relinquished by: (Signature) <i>Sh Burton</i>	Date 12-22-23	Time 2400	Received by: (Signature) <i>G Montano</i>	Date 12/27/23	Time 8:00	AVG Temp °C <u>4</u>		

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 12/27/2023 11:27:11AM

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:	Matador Resources, LLC.	Date Received:	12/27/23 08:00	Work Order ID:	E312176
Phone:	(972) 371-5200	Date Logged In:	12/27/23 08:58	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	01/03/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Eland State Com #124H

Work Order: E312177

Job Number: 23052-0001

Received: 12/27/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 1/2/24

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Eland State Com #124H
Workorder: E312177
Date Received: 12/27/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/27/2023 8:00:00AM, under the Project Name: Eland State Com #124H.

The analytical test results summarized in this report with the Project Name: Eland State Com #124H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 01/02/24 15:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS48-1-2'	E312177-01A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS49 -0.5'	E312177-02A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS54 -0'	E312177-03A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS55 -0.5'	E312177-04A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS56 -0.5'	E312177-05A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS57 -0'	E312177-06A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS60 -0'	E312177-07A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS61 -0'	E312177-08A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS62 -0'	E312177-09A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
FS63 -0'	E312177-10A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
SW01-0-2'	E312177-11A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.
SW02-0-2'	E312177-12A	Soil	12/21/23	12/27/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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FS48-1-2'

E312177-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Benzene	0.274	0.125	5	12/27/23	12/28/23	
Ethylbenzene	22.2	0.125	5	12/27/23	12/28/23	
Toluene	15.5	0.125	5	12/27/23	12/28/23	
o-Xylene	8.91	0.125	5	12/27/23	12/28/23	
p,m-Xylene	18.0	0.250	5	12/27/23	12/28/23	
Total Xylenes	26.9	0.125	5	12/27/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Gasoline Range Organics (C6-C10)	302	100	5	12/27/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352021	
Diesel Range Organics (C10-C28)	6800	500	20	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	2290	1000	20	12/28/23	12/29/23	
Surrogate: n-Nonane	146 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2352024	
Chloride	693	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 3:00:33PM

FS49 -0.5'

E312177-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	96.4 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	241	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 3:00:33PM

FS54 -0'

E312177-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	26.0	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	850	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 3:00:33PM

FS55 -0.5'

E312177-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	172	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 3:00:33PM

FS56 -0.5'

E312177-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	87.0	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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FS57 -0'

E312177-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	1120	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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FS60 -0'

E312177-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2352021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2352024	
Chloride	504	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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FS61 -0'

E312177-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Benzene	ND	0.0250	1	12/27/23	12/28/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/28/23	
Toluene	ND	0.0250	1	12/27/23	12/28/23	
o-Xylene	ND	0.0250	1	12/27/23	12/28/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/28/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/28/23	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		12/27/23	12/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352021	
Diesel Range Organics (C10-C28)	52.9	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
Surrogate: n-Nonane	108 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2352024	
Chloride	1030	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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FS62 -0'

E312177-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/29/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/29/23	
Toluene	ND	0.0250	1	12/27/23	12/29/23	
o-Xylene	ND	0.0250	1	12/27/23	12/29/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/29/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	256	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	464	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	624	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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FS63 -0'

E312177-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/29/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/29/23	
Toluene	ND	0.0250	1	12/27/23	12/29/23	
o-Xylene	ND	0.0250	1	12/27/23	12/29/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/29/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	29.1	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	1420	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Eland State Com #124H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
1/2/2024 3:00:33PM

SW01-0-2'

E312177-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Benzene	ND	0.0250	1	12/27/23	12/29/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/29/23	
Toluene	ND	0.0250	1	12/27/23	12/29/23	
o-Xylene	ND	0.0250	1	12/27/23	12/29/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/29/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2352009
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2352021
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2352024
Chloride	64.7	20.0	1	12/28/23	12/28/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
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SW02-0-2'
E312177-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Benzene	ND	0.0250	1	12/27/23	12/29/23	
Ethylbenzene	ND	0.0250	1	12/27/23	12/29/23	
Toluene	ND	0.0250	1	12/27/23	12/29/23	
o-Xylene	ND	0.0250	1	12/27/23	12/29/23	
p,m-Xylene	ND	0.0500	1	12/27/23	12/29/23	
Total Xylenes	ND	0.0250	1	12/27/23	12/29/23	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2352009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/27/23	12/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		12/27/23	12/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2352021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/28/23	12/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/28/23	12/29/23	
Surrogate: n-Nonane	104 %	50-200		12/28/23	12/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2352024	
Chloride	ND	20.0	1	12/28/23	12/29/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:00:33PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352009-BLK1) Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

LCS (2352009-BS1) Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	4.48	0.0250	5.00		89.7	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.79	0.0250	5.00		95.8	70-130			
o-Xylene	4.89	0.0250	5.00		97.9	70-130			
p,m-Xylene	9.91	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2352009-MS1) Source: E312185-01 Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	4.50	0.0250	5.00	ND	90.0	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.9	61-133			
Toluene	4.82	0.0250	5.00	ND	96.4	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2352009-MSD1) Source: E312185-01 Prepared: 12/27/23 Analyzed: 12/28/23

Benzene	4.63	0.0250	5.00	ND	92.7	54-133	2.99	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	3.32	20	
Toluene	4.97	0.0250	5.00	ND	99.4	61-130	3.12	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	3.48	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	3.21	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:00:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352009-BLK1) Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

LCS (2352009-BS2) Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2352009-MS2) Source: E312185-01 Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike Dup (2352009-MSD2) Source: E312185-01 Prepared: 12/27/23 Analyzed: 12/28/23

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	5.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		92.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Eland State Com #124H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/2/2024 3:00:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2352021-BLK1)					Prepared: 12/28/23 Analyzed: 12/28/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	50-200			

LCS (2352021-BS1)					Prepared: 12/28/23 Analyzed: 12/28/23				
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2352021-MS1)					Source: E312173-05		Prepared: 12/28/23 Analyzed: 12/28/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike Dup (2352021-MSD1)					Source: E312173-05		Prepared: 12/28/23 Analyzed: 12/28/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	0.592	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Eland State Com #124H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 1/2/2024 3:00:33PM
---	---	-------------------------------------

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2352024-BLK1)				Prepared: 12/28/23 Analyzed: 12/29/23					
Chloride	ND	20.0							
LCS (2352024-BS1)				Prepared: 12/28/23 Analyzed: 12/29/23					
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2352024-MS1)				Source: E312173-02		Prepared: 12/28/23 Analyzed: 12/29/23			
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2352024-MSD1)				Source: E312173-02		Prepared: 12/28/23 Analyzed: 12/29/23			
Chloride	253	20.0	250	ND	101	80-120	6.04	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Eland State Com #124H	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/02/24 15:00

- 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.



23062-0001

Client: Matador Production Company.				Bill To				Lab Use Only				TAT				EPA Program						
Project: Eland State Com #124H				Attention: Matador Production Company				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo				Address: on file				E 31277		203					x							
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method										RCRA				
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398				TPH GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State							
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com											NM	CO	UT	AZ	TX			
Email: agiovengo@ensolum.com																						
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													Remarks				
10:09	12/21/2023	Soil	1 Jar	FS48 - 1-2'	1																	
11:40	12/21/2023	Soil	1 Jar	FS49 - 0.5'	2																	
10:00	12/21/2023	Soil	1 Jar	FS54 - 0'	3																	
12:52	12/21/2023	Soil	1 Jar	FS55 - 0.5'	4																	
12:50	12/21/2023	Soil	1 Jar	FS56 - 0.5'	5																	
9:48	12/21/2023	Soil	1 Jar	FS57 - 0'	6																	
9:49	12/21/2023	Soil	1 Jar	FS60 - 0'	7																	
9:52	12/21/2023	Soil	1 Jar	FS61 - 0'	8																	
9:56	12/21/2023	Soil	1 Jar	FS62 - 0'	9																	
9:54	12/21/2023	Soil	1 Jar	FS63 - 0'	10																	

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaf@ensolum.com

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

Sampled by: Cole Burton

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

Relinquished by: (Signature) <i>209 Pm</i>	Date 12/22/23	Time 7:18	Received by: (Signature) <i>Michelle Geyf</i>	Date 12-22-23	Time 0945	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Geyf</i>	Date 12-22-23	Time 1445	Received by: (Signature) <i>SC</i>	Date 12-22-23	Time 1800	
Relinquished by: (Signature) <i>SC</i>	Date 12-22-23	Time 2400	Received by: (Signature) <i>Amantene</i>	Date 12/27/23	Time 8:00	

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 12/27/2023 11:26:28AM

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:	Matador Resources, LLC.	Date Received:	12/27/23 08:00	Work Order ID:	E312177
Phone:	(972) 371-5200	Date Logged In:	12/27/23 09:02	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	01/03/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX G

NMOCD Notifications

From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: [EXTERNAL] Confirmation Sampling Variance Request - Eland 32 18 33 RN State Com #124H - Incident Number nAPP2332557077
Date: Thursday, January 4, 2024 12:52:33 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[Outlook-zmdgezir.png](#)



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, December 20, 2023 9:40 AM
To: Ashley Giovengo <agiovengo@ensolum.com>
Cc: clinton.talley@matadorresources.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Confirmation Sampling Variance Request - Eland 32 18 33 RN State Com #124H - Incident Number nAPP2332557077

You don't often get email from nelson.velez@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good morning Ashley,

After reviewing the incident to determine depth to water information, your variance request is approved. The exploratory boring CP 1857 advanced in 2020 was found adjacent to the site which water was listed as > 100 ft.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



Previous email submittal:

From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Wednesday, December 13, 2023 5:00 AM

To: Clinton Talley <clinton.talley@matadorresources.com>

Subject: Confirmation Sampling Variance Request - Eland 32 18 33 RN State Com #124H - Incident Number nAPP2332557077

-

****EXTERNAL EMAIL****

Hello,

Matador Production Company (Matador) is requesting a confirmation sampling variance at the Eland 32 18 33 RN State Com #124H (Incident Number nAPP2332557077). On November 21, 2023, communication from a nearby frac job hit the Eland BOP and packing could not hold the pressure. Approximately 991 barrels (bbls) of produced water and 110 bbls of crude oil were released; 126 bbls of produced water and 14 bbls of crude oil were recovered. The release impacted approximately 24,789 square feet (sq. ft.) on-pad and 3,943 (sq. ft.) off-pad. Matador reported the release to the New Mexico State Land Office (NMSLO) on November 22, 2023, via email. A desktop review for potential site receptors and delineation soil sampling to the strictest Closure Criteria have been completed for this release. According to the desktop review, the closest depth to groundwater measurement is a soil boring (CP 1857) with a depth to groundwater measurement greater than 107

ft below ground surface (bgs). The soil boring is located 147.17 miles northeast of the site and the site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Laboratory analytical results from delineation soil samples indicated that Chloride and TPH concentrations are below the site Closure Criteria at ground surface for the on-pad spill area and chloride impacts do not extend greater than 1-foot bgs in the off-pad spill area. Matador intends to complete remediation of the on-pad and off-pad spill areas in accordance with the site Closure Criteria and with the reclamation requirement. Due to the size of the impacted areas (24,789 sq. ft) and (3,943 sq. ft), Matador would like to request a sampling variance of every 400 sq. ft. on confirmation floor samples and every 200 feet on confirmation sidewall samples. Matador believes this *variance request* will provide equal or better protection of public health, the environment, and groundwater and respectfully requests approval for Incident Number (nAPP2332557077).

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

-

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From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Friday, December 15, 2023 10:36 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Confirmation Sampling Variance Request - Eland 32 18 33 RN State Com #124H - Incident Number nAPP2332557077

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Friday, December 15, 2023 9:47 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us
Cc: clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>
Subject: [EXTERNAL] Confirmation Sampling Variance Request - Eland 32 18 33 RN State Com #124H - Incident Number nAPP2332557077

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Matador Production Company (Matador) is requesting a confirmation sampling variance at the Eland 32 18 33 RN State Com #124H (Incident Number nAPP2332557077). On November 21, 2023, communication from a nearby frac job hit the Eland BOP and packing could not hold the pressure. Approximately 991 barrels (bbls) of produced water and 110 bbls of crude oil were released; 126 bbls of produced water and 14 bbls of crude oil were recovered. The release impacted approximately 24,789 square feet (sq. ft.) on-pad and 3,943 (sq. ft.) off-pad. Matador reported the release to the New Mexico State Land Office (NMSLO) on November 22, 2023, via email. A desktop review for potential site receptors and delineation soil sampling to the strictest Closure Criteria have been completed for this release. According to the desktop review, the closest depth to groundwater measurement is a soil boring (CP 1857) with a depth to groundwater measurement greater than 107 ft below ground surface (bgs). The soil boring is located 147.17 miles northeast of the site and the site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Laboratory analytical results from delineation soil samples indicated that Chloride and TPH concentrations are below the site Closure Criteria at ground surface for the on-pad spill area and chloride impacts do not extend greater than 1-foot bgs in the off-pad spill area. Matador intends to complete remediation of the on-pad and off-pad spill areas in accordance with the site Closure Criteria and with the reclamation requirement. Due to the size of the impacted areas (24,789 sq. ft) and (3,943 sq. ft), Matador would like to request a sampling variance of every 400 sq. ft. on confirmation floor samples and every 200 feet on confirmation sidewall samples. Matador believes this *variance request* will provide equal or better protection of public health, the environment, and groundwater and respectfully requests approval for Incident Number (nAPP2332557077).

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294923
Date: Thursday, January 4, 2024 1:02:16 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f

From: Clinton Talley <clinton.talley@matadorresources.com>
Sent: Thursday, December 14, 2023 5:40 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294923

[**EXTERNAL EMAIL**]

Eland 48hr notification

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 14, 2023 5:34 PM
To: Clinton Talley <clinton.talley@matadorresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294923

****EXTERNAL EMAIL****

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332557077.

The sampling event is expected to take place:

When: 12/19/2023 @ 09:00

Where: L-32-18S-33E 0 FNL 0 FEL (32.697988,-103.680395)

Additional Information: N/A

Additional Instructions: 32.69808, -103.68036

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294925
Date: Thursday, January 4, 2024 1:02:09 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f

From: Clinton Talley <clinton.talley@matadorresources.com>
Sent: Thursday, December 14, 2023 5:41 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294925

[**EXTERNAL EMAIL**]

Eland 48hr sampling notification

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 14, 2023 5:35 PM
To: Clinton Talley <clinton.talley@matadorresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294925

****EXTERNAL EMAIL****

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332557077.

The sampling event is expected to take place:

When: 12/20/2023 @ 09:00

Where: L-32-18S-33E 0 FNL 0 FEL (32.697988,-103.680395)

Additional Information: N/A

Additional Instructions: 32.69808, -103.68036

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

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1220 South St. Francis Drive
Santa Fe, NM 87505

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From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294926
Date: Thursday, January 4, 2024 1:02:01 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f

From: Clinton Talley <clinton.talley@matadorresources.com>
Sent: Thursday, December 14, 2023 5:41 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294926

[**EXTERNAL EMAIL**]

Eland 48hr sampling notification

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 14, 2023 5:37 PM
To: Clinton Talley <clinton.talley@matadorresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294926

****EXTERNAL EMAIL****

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332557077.

The sampling event is expected to take place:

When: 12/21/2023 @ 09:00

Where: L-32-18S-33E 0 FNL 0 FEL (32.697988,-103.680395)

Additional Information: N/A

Additional Instructions: 32.69808, -103.68036

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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From: [Ashley Giovengo](#)
To: [Cole Burton](#)
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294927
Date: Thursday, January 4, 2024 1:01:56 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f

From: Clinton Talley <clinton.talley@matadorresources.com>
Sent: Thursday, December 14, 2023 5:41 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294927

[**EXTERNAL EMAIL**]

Eland 48hr sampling notification

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 14, 2023 5:39 PM
To: Clinton Talley <clinton.talley@matadorresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 294927

****EXTERNAL EMAIL****

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332557077.

The sampling event is expected to take place:

When: 12/22/2023 @ 09:00

Where: L-32-18S-33E 0 FNL 0 FEL (32.697988,-103.680395)

Additional Information: N/A

Additional Instructions: 32.69808, -103.68036

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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1220 South St. Francis Drive
Santa Fe, NM 87505

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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QUESTIONS

Action 315057

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 315057
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2332557077
Incident Name	NAPP2332557077 ELAND 124H @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ELAND 124H
Date Release Discovered	11/21/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Well Crude Oil Released: 110 BBL Recovered: 14 BBL Lost: 96 BBL.
Produced Water Released (bbls) Details	Cause: Other Well Produced Water Released: 990 BBL Recovered: 126 BBL Lost: 864 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)	Other Company Frac into Matador well cause of Release.

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QUESTIONS, Page 2

Action 315057

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
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Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 02/16/2024
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QUESTIONS, Page 3

Action 315057

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	315057
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	693
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	9392
GRO+DRO	(EPA SW-846 Method 8015M)	7102
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/22/2023
On what date will (or did) the final sampling or liner inspection occur	11/21/2023
On what date will (or was) the remediation complete(d)	12/21/2023
What is the estimated surface area (in square feet) that will be reclaimed	1271
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	28900
What is the estimated volume (in cubic yards) that will be remediated	480

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 315057

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	315057
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 02/16/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 315057

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	315057
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	An active wellhead and production piping form the areal extent of the deferral area. Excavation under and around the wellhead and pipelines is impossible to achieve safely without the physical removal of existing production equipment in place.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1271
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	282
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (F#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-43293 ELAND 32 18 33 RN STATE COM #124H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 02/16/2024

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QUESTIONS, Page 6

Action 315057

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	315057
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	294927
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/22/2023
What was the (estimated) number of samples that were to be gathered	78
What was the sampling surface area in square feet	28732

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 315057

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 315057
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	4/9/2024