



December 2, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request
 Black River SWD 1
 Incident Number nAPP2421542116
 Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of San Mateo Black River Water Management Company (San Mateo), has prepared this *Deferral Request* to document assessment, excavation, and soil sampling activities at the Black River SWD 1 (Site). The Site is located in Unit B, Section 31, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.26605°, -104.12590°) and is associated with oil and gas exploration and production operations on private land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, San Mateo is submitting this *Deferral Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2421542116 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On August 2, 2024, a leak developed on a fiberglass pipeline located inside a concrete secondary containment. As a result, approximately 94 barrels (bbls) of produced water were released inside the secondary containment and overspray from the leaking line impacted the caliche pad west of the containment; 94 bbls of produced water were recovered with a vacuum truck. San Mateo reported the release to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD web portal on August 2, 2024, and the release was assigned Incident Number nAPP2421542116. On November 15, 2024, a liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be intact with evident integrity to contain the release.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess 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 the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

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The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04281 POD1, with a documented static groundwater measurement of 52 feet below ground surface (bgs). The well is located 0.16 miles southwest 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 A. The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.37 miles west 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 a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high 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): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION SAMPLING ACTIVITIES

Between August 7, 2024, and September 11, 2024, Ensolum personnel collected delineation samples to determine lateral and vertical extent of the release. Soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and for volatile organic compounds (VOCs) utilizing a Honeywell® photoionization detector (PID). The release extent and all delineation soil sample locations were mapped utilizing a global positioning system (GPS) and are depicted on Figure 2.

To verify the lateral extent of the release, soil samples, denoted as SS01 through SS06, were collected at ground surface just outside the visibly stained area and field screened. If field screening suggested the presence of elevated chloride or VOC concentrations, Ensolum stepped out laterally to collect additional samples, adding a letter to the sample designation. Soil samples SS01D, SS02, SS03J, SS04, SS05N, SS06, SS06A, SS06B, SS06C, and SS06D were submitted for laboratory analysis.

For vertical delineation, Ensolum personnel used a hand auger to advance SS06 through SS06D to 1-foot bgs to collect a sample from the subsurface. Additional subsurface samples were collected from twelve boreholes. Ensolum advanced the boreholes with a hand auger to depths ranging from 1-foot bgs to 18 feet bgs. Soil samples were collected approximately every 2 feet and/or at the terminus of each boring and submitted for laboratory analysis. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B, and a photographic log is included in Appendix C.

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 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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

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Laboratory analytical results indicated the presence of elevated chloride concentrations within the release and in other areas on the well pad. Lateral delineation soil samples SS01D, SS02, SS03J, SS04, SS05N, SS06C, and SS06D, collected at ground surface, were all in compliance with the Closure Criteria. Additionally, the surface soil samples collected at BH08 and BH12 were in compliance with the Closure Criteria. These samples defined the lateral extent of elevated chloride concentrations.

Within the actual release extent, vertical delineation was achieved at 6 feet bgs with the terminal sample in BH01 in compliance with Closure Criteria. Outside of the release extent, in potential historically impacted areas, soil samples near production equipment exceeded the Closure Criteria as deep as 14 feet bgs in BH04 and at shallower depths of 1 to 2 feet bgs in the boreholes farther away. Vertical delineation with terminal samples in compliance with Closure Criteria was achieved in BH03, BH04, BH06, BH07, BH09, BH10, and BH11. The laboratory analytical results are summarized in Table 1. Based on these results, excavation of impacted soil was warranted.

EXCAVATION, CONFIRMATION SOIL SAMPLING AND LINER INSPECTION ACTIVITIES

From November 05, 2024, through November 13, 2024, Ensolum personnel were onsite to oversee excavation and to excavate the accessible area to the maximum extent practicable (MEP). Excavation of the release area was completed with a backhoe, skid steer, hydro-vacuum, and hand tools to depths ranging from ground surface to 4 feet bgs. Following the removal of impacted soil, Ensolum personnel collected 16 five-point composite confirmation soil samples (FS01 through FS16) from the floor of the excavation and 3 five-point composite confirmation soil samples (SW01 through SW03) from the sidewalls of the excavation. The 5-point composite samples represented areas of no more than 200 square feet. They were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. All 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.

The final excavation extent measured approximately 3,144 square feet in size, and approximately 140 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and disposed of at the Lea Land Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation confirmation samples were in compliance with the strictest Closure Criteria, except for FS03, FS13, FS14, FS15, FS16, and SW03. The laboratory analytical results are summarized in Tables 2 and 3 and the complete laboratory analytical reports are included in Appendix D. All sampling notifications to NMOCD and additional correspondence is included in Appendix E.

DEFERRAL REQUEST

San Mateo is requesting deferral of final remediation due to the presence of active production equipment, process piping, and the supports beneath them, preventing full excavation of all identified impacted soil. The estimated area of requested deferral is approximately 1,821 square feet in size assuming a maximum depth of 18 feet according to analytical data collected during delineation activities. Confirmation sample area FS03 has a maximum depth of 3 feet according to data from BH03, 18 feet in in confirmation sample FS05 according to BH04, 3 feet in confirmation sample FS06 and FS14 through FS16 according to data from BH10, and 4 feet in confirmation sample area FS13 according to data from BH07. The area is presented in Figure 4. Impacted soil is limited to the area beneath active production

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equipment and within the containment area, where remediation would require a major facility deconstruction. The release extent has been laterally defined by delineation soil samples SS01D, SS02, SS03J, SS04, and SS05N collected at ground surface, SS06C, SS06D, BH08 and BH12 collected at ground surface and 1-foot bgs, and vertically defined by boreholes BH01, BH04, BH10 and BH07, collected at 6 feet, 18 feet, 4 feet, and 3 feet bgs, respectively.

San Mateo does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 52 feet bgs, and all accessible impacted soil was removed during the excavation activities to the MEP. Any gross impacts were removed via scraping of the ground surface. The concentrations of chloride remaining in the Area of Requested Deferral are generally less than 1,000 mg/kg. These residual concentrations are unlikely to migrate to groundwater and will be covered with clean backfill material reducing the risk of exposure to surface plant and wildlife. During delineation and excavation activities, no evidence of karst lithology was discovered that would present an immediate pathway to shallow groundwater. The maximum depth of impact is 18 feet bgs. Without the apparent presence of karst features, the migration of chloride ions an additional 34 feet to groundwater is unlikely to occur. 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, San Mateo requests deferral of final remediation for Incident Number nAPP2421542116 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 Scientist



Daniel R. Moir, P.G. (license in WY & TX)
Senior Managing Geologist

cc: Jason Touchet, Matador Production Company

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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	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



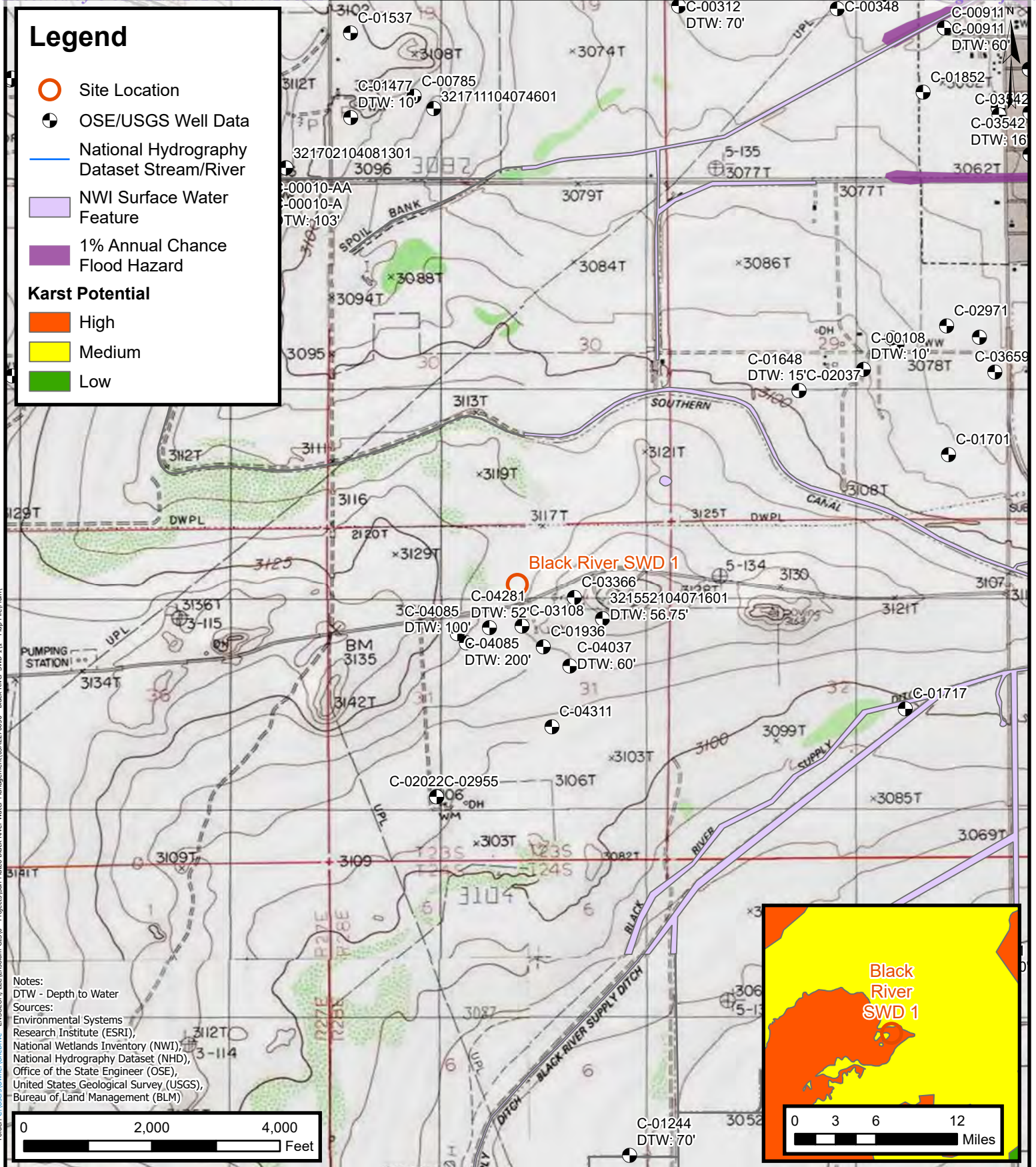
FIGURES

Legend

- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River
- NWI Surface Water Feature
- 1% Annual Chance Flood Hazard

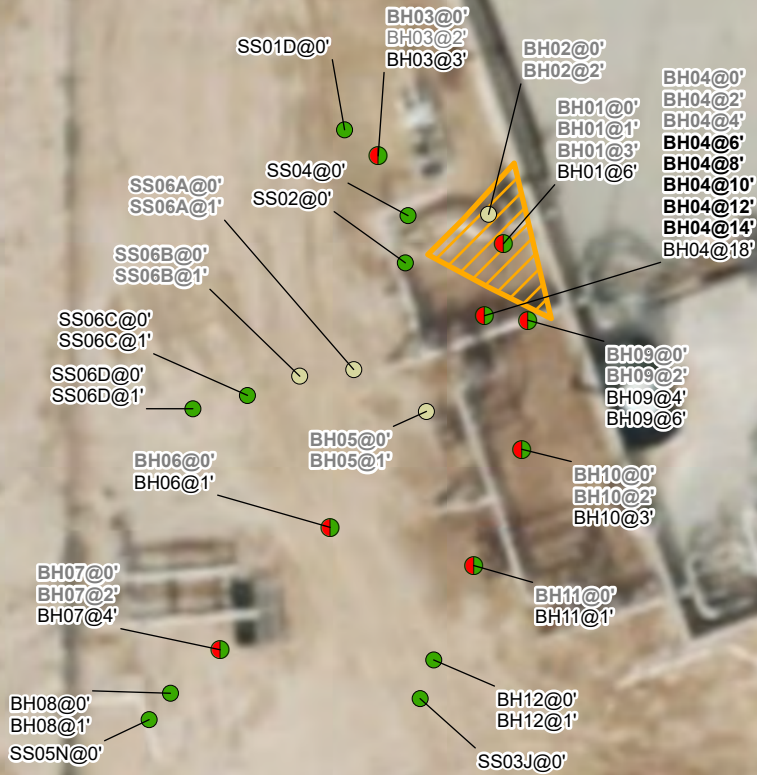
Karst Potential

- High
- Medium
- Low

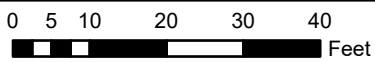


Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample - Removed
- Release Extent



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.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

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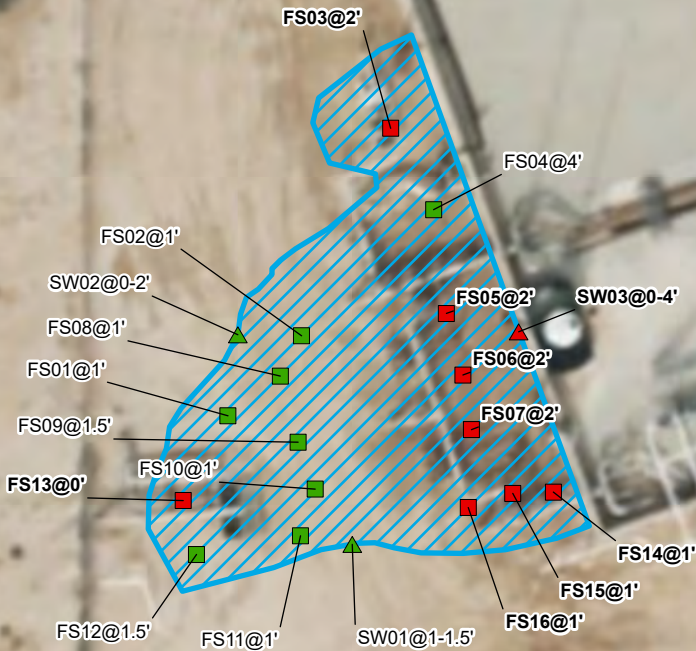
FIGURE

2

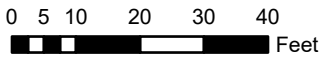


Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- Confirmation Sidewall Sample in Compliance with Closure Criteria
- Confirmation Floor Sample with Concentrations Exceeding Closure Criteria
- Confirmation Sidewall Sample with Concentrations Exceeding Closure Criteria
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Locations

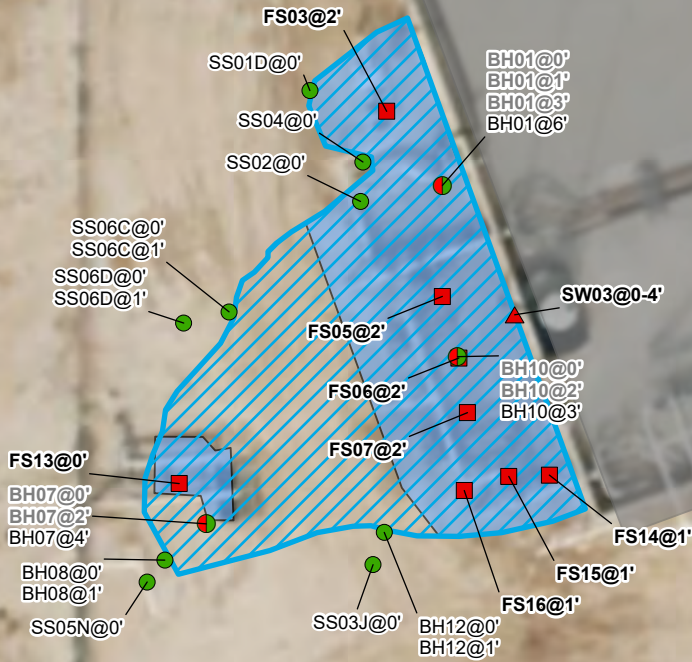
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FIGURE
3

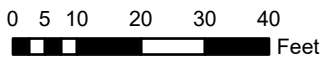


Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Confirmation Floor Sample with Concentrations Exceeding Closure Criteria
- ▲ Confirmation Sidewall Sample with Concentrations Exceeding Closure Criteria
- ▭ Deferral Area
- ▭ <all other values>
- ▭ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Area of Requested Deferral
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FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Black River SWD 1
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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	NE	100	600
Delineation Soil Samples										
SS01D	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS02	8/7/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS03J	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	421
SS04	8/7/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	243
SS05N	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS06	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,580
SS06	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
SS06A	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,870
SS06A	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149
SS06B	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	823
SS06B	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	290
SS06C	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	530
SS06C	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SS06D	9/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241
SS06D	9/11/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
BH01	8/16/2024	0	<0.0250	<0.0500	<20.0	33.2	<50.0	33.2	33.2	39,100
BH01	8/16/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,200
BH01	8/16/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,140
BH01	8/16/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	372
BH02	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	18,400
BH02	8/21/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,700
BH03	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,090
BH03	8/21/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.6
BH03	8/21/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	151
BH04	8/21/2024	0	<0.0250	<0.0500	<20.0	51.5	58.9	51.5	110.4	5,380
BH04	8/21/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
BH04	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
BH04	8/21/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,810
BH04	8/21/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	717
BH04	8/21/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	900
BH04	8/21/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	971
BH04	8/21/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
BH04	8/21/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	744



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Black River SWD 1
 San Mateo Black River Water Management Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
BH04	8/21/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	501
BH05	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,830
BH05	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	402
BH06	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,320
BH06	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	348
BH07	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	12,700
BH07	8/21/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,020
BH07	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	124
BH08	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH08	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	300
BH09	8/21/2024	0	<0.0250	<0.0500	<20.0	156	92.7	156	248.7	41,500
BH09	8/21/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,090
BH09	8/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	593
BH09	8/21/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	265
BH10	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,520
BH10	8/21/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	611
BH10	8/21/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	317
BH11	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,930
BH11	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	270
BH12	8/21/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	415
BH12	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	321

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Black River SWD 1
 San Mateo Black River Water Management Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS01	11/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	345
FS02	11/12/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	180
FS03	11/12/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	968
FS04	11/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	512
FS05	11/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1320
FS06	11/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1050
FS07	11/13/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1340
FS08	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	272
FS09	11/13/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	295
FS10	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	431
FS11	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	322
FS12	11/13/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	531
FS13	11/13/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,990
FS14	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
FS15	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,770
FS16	11/13/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,510

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS Black River SWD 1 San Mateo Black River Water Management Company Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Sidewall Soil Samples										
SW01	11/13/2024	0-1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	588
SW02	11/13/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	430
SW03	11/13/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,110

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

GRO: Gasoline Range Organics

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TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log & Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2018 NOV -5 PM 1:46

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.)		WELL TAG ID NO. ID 22157		OSE FILE NO(S). C-4281			
	WELL OWNER NAME(S) David Fritschy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 315 N CANAL ST				CITY CARLSBAD	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32.2642032		MINUTES 32	SECONDS 15 51.13 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -104.12733		104 7 38.388	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NW 31-23S-28E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1778		NAME OF LICENSED DRILLER TRAVIS MANN			NAME OF WELL DRILLING COMPANY Third Generation Drilling		
	DRILLING STARTED 10/10/18	DRILLING ENDED 10/16/18	DEPTH OF COMPLETED WELL (FT) 200'	BORE HOLE DEPTH (FT) 200	DEPTH WATER FIRST ENCOUNTERED (FT) 100			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 52'			
	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:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (2.44 coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	40	10	SDR 17 PVC	SLIP	5"	.25	.032
	40	180	10	SDR 17 PVC	SLIP	5	.25	
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						
	0	20	10	Cement	7.08	Poured		
	20	180	10	# Pea Gravel	63.23	Poured		

FOR OSE INTERNAL USE

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

FILE NO.	C-4281	POD NO.	1	TRN NO.	632587
LOCATION	23S.28E.31.1-4.2		WELL TAG ID NO.	22157	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE


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


FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	C-4281	POD NO.	1
LOCATION		TRN NO.	632587
235.28E.31.1.4.2		WELL TAG ID NO.	22157
		PAGE 2 OF 2	





APPENDIX B


Lithologic Soil Sampling Logs


								Sample Name: BH01		Date: 8/16/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.266044, -104.125862								Hole Diameter: 3"		Total Depth: 6'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	>3,388		N	BH01	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, No Plasticity			
D	>3,388		N	BH01	1	1					
D	2,548		N	BH01	2	2					
D	2,380		N	BH01	3	3	SP-SM	Dry, No Stain, Clay, Pliable, Plastic			
D	1,808		N	BH01	4	4					
D	901		N	BH01	5	5					
D	392		N	BH01	6	6					
Total Depth @ 6 feet bgs.											


								Sample Name: BH02		Date: 8/20/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.266055, -104.125868								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	>3,399		N	BH02	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	2,553		N	BH02	1	1					
D	>3,399		N	BH02	2	2					
D	ND	0.1	N	BH02	3	3	SP-SM	Dry, No Stain, Clay, Pliable, Plasticity			
Total Depth @ 3 feet bgs.											


								Sample Name: BH03		Date: 8/20/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.266070, -104.125897								Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	2,928		N	BH03	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	2,732	0	N	BH03	1	1					
D	ND	0	N	BH03	2	2	SP-SM	Dry, No Stain, Clay, Pliable, Plasticity			
Total Depth = 2' bgs											


								Sample Name: BH04		Date: 8/20/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.266019, -104.125870								Hole Diameter: 3"		Total Depth: 18'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH04	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, No Plasticity			
D	1,685		N	BH04	1	1					
D	1,685		N	BH04	2	2					
D	1,355		N	BH04	3	3					
D	1,254		N	BH04	4	4					
D	2,323		N	BH04	5	5	SP-SM	Dry, No Stain, Clay, Pliable, Plastic			
D	1,825		N	BH04	6	6					
D	1,002		N	BH04	7	7					
D	1,002		N	BH04	8	8					
D	1,086		N	BH04	9	9					
D	1,181		N	BH04	10	10					
D	1,271		N	BH04	11	11					
D	1,181	0	N	BH04	12	12					


								Sample Name: BH04		Date: 8/20/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
Coordinates: 32.266019, -104. 125870								Logged By: Bowan Simmons		Method: Hand Auger	
Hole Diameter: 3"								Total Depth: 18'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1,341		N	BH04	13	13	SP-SM	Dry, No Stain, Clay, Pliable, Plastic			
D	1,584		N	BH04	14	14					
D	1,181		N	BH04	15	15					
D	1,002		N	BH04	16	16	SP-SM	Dry, No Stain, Clay, Pliable, Plastic			
D	694		N	BH04	17	17					
D	694		N	BH04	18	18					
Total Depth = 18.2' bgs											


								Sample Name: BH05		Date: 8/20/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265984, -104.125895								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH05	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	235	0	N	BH05	1	1					
Total Depth @ 1-foot bgs											


								Sample Name: BH06		Date: 8/20/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265943, -104.125936								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH06	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	453	0	N	BH06	1	1					
Total Depth @ 1-foot bgs											


								Sample Name: BH07		Date: 8/20/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265914, -104.125972								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH07	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	1,372		N	BH07	1	1					
D	1,372		N	BH07	2	2					
D	767		N	BH07	3	3	SP-SM	Dry, No Stain, Clay, Pliable, Plasticity			
D	201	0	N	BH07	4	4					
Total Depth @ 4 feet bgs											


								Sample Name: BH08		Date: 8/21/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265884, -104.126003								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH08	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	403	0	N	BH08	1	1					
Total Depth @ 1-foot bgs.											


								Sample Name: BH09		Date: 8/21/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.266017, -104.125852								Hole Diameter: 3"		Total Depth: 6'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH09	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	>3,399		N	BH09	1	1					
D	>3,399		N	BH09	2	2					
D	918		N	BH09	3	3	SP-SM	Dry, No Stain, Clay, Pliable, Placticity			
D	767		N	BH09	4	4					
D	767		N	BH09	5	5					
D	392		N	BH09	6	6					
Total Depth @ 6 feet bgs.											


								Sample Name: BH10		Date: 8/21/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265971, -104.125855								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH10	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	1,181		N	BH10	1	1					
D	767		N	BH10	2	2		SP-SM	Dry, No Stain, Clay, Pliable, Plasticity		
D	453	0.1	N	BH10	3	3					
Total Depth @ 3 feet bgs.											


								Sample Name: BH11		Date: 8/21/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265929, -104.125875								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH11	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	403	0	N	BH11	1	1					
Total Depth @ 1-foot bgs.											

								Sample Name: BH12		Date: 8/21/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.265895, -104.125892								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH12	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, Non Plasticity			
D	443	0	N	BH12	1	1	CCHE				
Total Depth @ 1-foot bgs.											

								Sample Name: SS06A		Date: 9/11/24					
								Site Name: Black River SWD 1							
								Incident Number: nAPP2421542116							
								Job Number: 03A2270056							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger					
Coordinates: 32.266000, -104.125925								Hole Diameter: 3"		Total Depth: 1'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	1,724		N	SS06A	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, No Plasticity							
D	207		N	SS06A	1	1									
Total Depth @ 1-foot bgs.															

								Sample Name: SS06B		Date: 9/11/24			
								Site Name: Black River SWD 1					
								Incident Number: nAPP2421542116					
								Job Number: 03A2270056					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger			
Coordinates: 32.265997, -104.125948								Hole Diameter: 3"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	>3,393		N	SS06B	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, No Plasticity					
D	280		N	SS06B	1	1							
Total Depth @ 1-foot bgs.													

								Sample Name: SS06C		Date: 9/11/24	
								Site Name: Black River SWD 1			
								Incident Number: nAPP2421542116			
								Job Number: 03A2270056			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.265991, -104.125970								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1,024		N	SS06C	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, No Plasticity			
D	364		N	SS06C	1	1					
Total Depth @ 1-foot bgs.											

								Sample Name: SS06D		Date: 9/11/24			
								Site Name: Black River SWD 1					
								Incident Number: nAPP2421542116					
								Job Number: 03A2270056					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger			
Coordinates: 32.265986, -104.125993								Hole Diameter: 3"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	711		N	SS06D	0	0	CCHE	Dry, No Stain, Caliche, Non Pliable, No Plasticity					
D	240		N	SS06D	1	1							
Total Depth @ 1-foot bgs.													



APPENDIX C

Photographic Log



Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



Photograph 1
Description: Release Area
View: East

Date: 08/07/2024



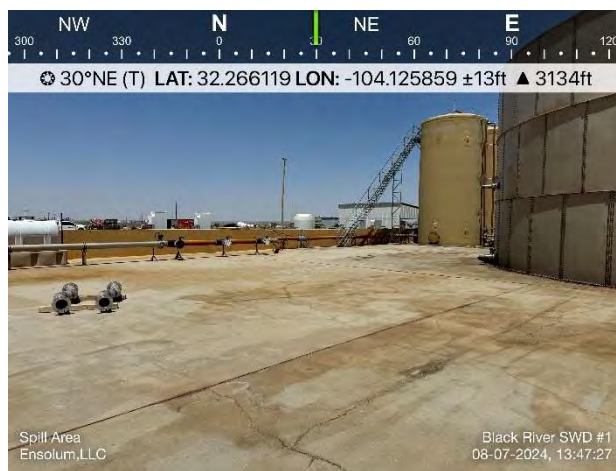
Photograph 2
Description: Release Area
View: East

Date: 08/07/2024



Photograph 3
Description: Release Area
View: East

Date: 08/07/2024



Photograph 4
Description: Release Area
View: North

Date: 08/07/2024



Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



Photograph 5 Date: 08/20/2024
Description: Horizontal Delineation Sampling
View: North



Photograph 6 Date: 08/20/2024
Description: Horizontal Delineation Sampling
View: East



Photograph 7 Date: 08/21/2024
Description: Vertical Delineation Sampling (BH08)
View: North



Photograph 8 Date: 08/21/2024
Description: Vertical Delineation Sampling (BH09)
View: East



Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



Photograph 9 Date: 09/11/2024
Description: Vertical Delineation Sampling (SS06F)
View: South



Photograph 10 Date: 09/11/2024
Description: Vertical Delineation Sampling (SS06E)
View: East



Photograph 11 Date: 09/11/2024
Description: Vertical Delineation Sampling (SS06B)
View: East



Photograph 12 Date: 08/21/2024
Description: Vertical Delineation Sampling (SS06C)
View: East

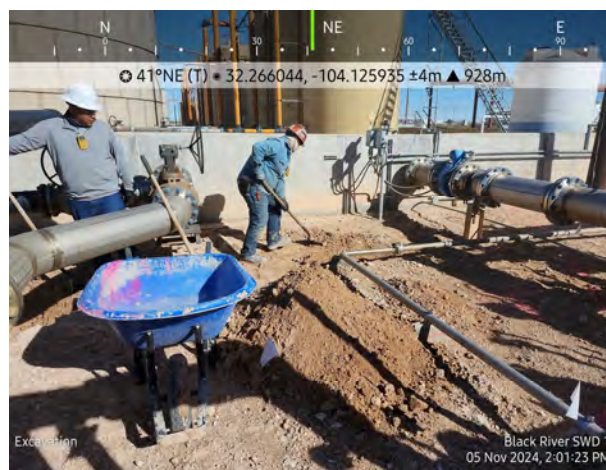


Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



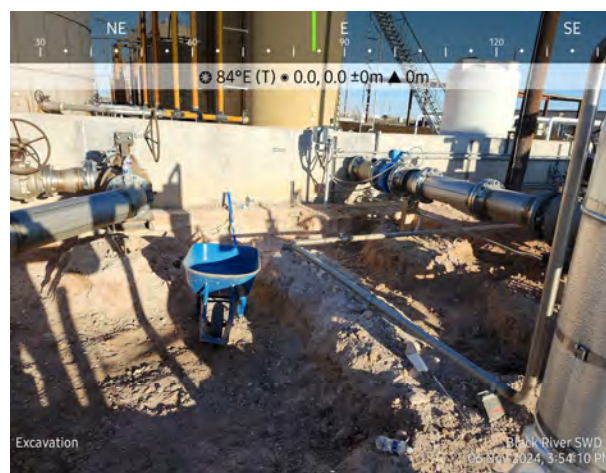
Photograph 13 Date: 09/11/2024
Description: Excavation Activities
View: Northeast



Photograph 14 Date: 09/11/2024
Description: Excavation Activities
View: Northeast



Photograph 15 Date: 09/11/2024
Description: Excavation Activities
View: Northwest

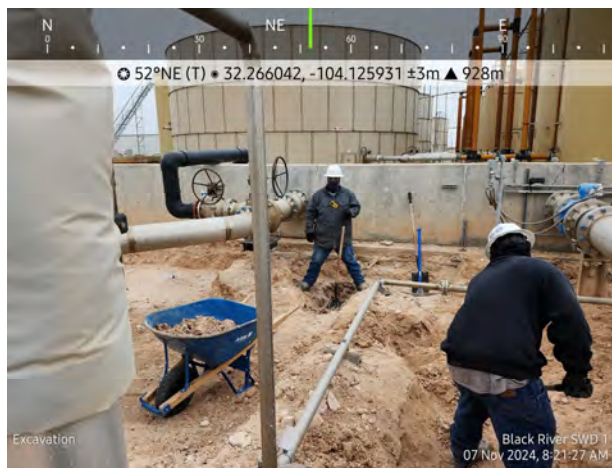


Photograph 16 Date: 08/21/2024
Description: Excavation Activities
View: East

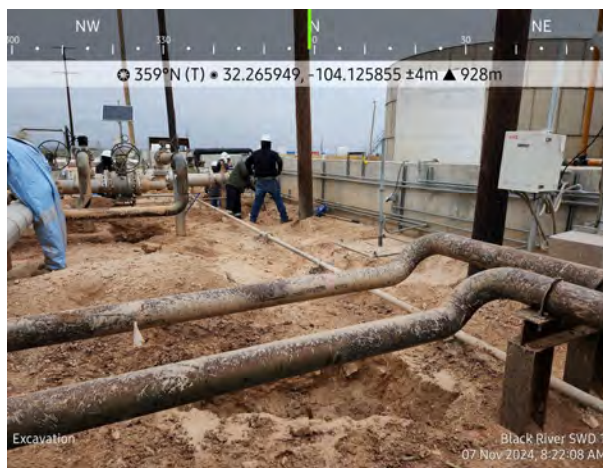


Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



Photograph 17 Date: 09/11/2024
Description: Excavation Activities
View: Northeast



Photograph 18 Date: 09/11/2024
Description: Excavation Activities
View: North



Photograph 19 Date: 09/11/2024
Description: Excavation Activities
View: Northeast



Photograph 20 Date: 08/21/2024
Description: Excavation Activities
View: Northeast

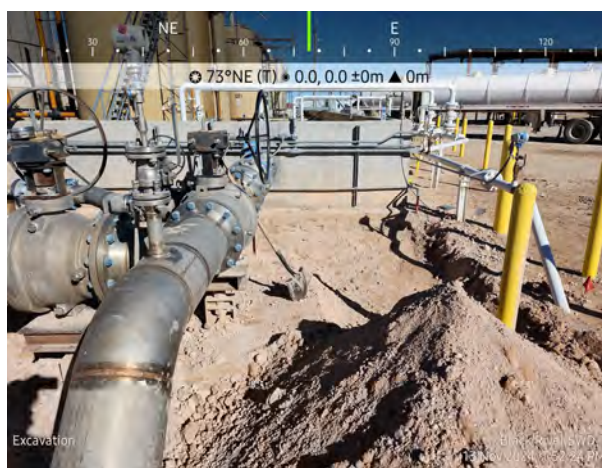


Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



Photograph 21 Date: 09/11/2024
Description: Excavation Activities
View: South



Photograph 22 Date: 09/11/2024
Description: Excavation Activities
View: East



Photograph 23 Date: 11/15/2024
Description: Vertical Delineation Sampling (SS06B)
View: North

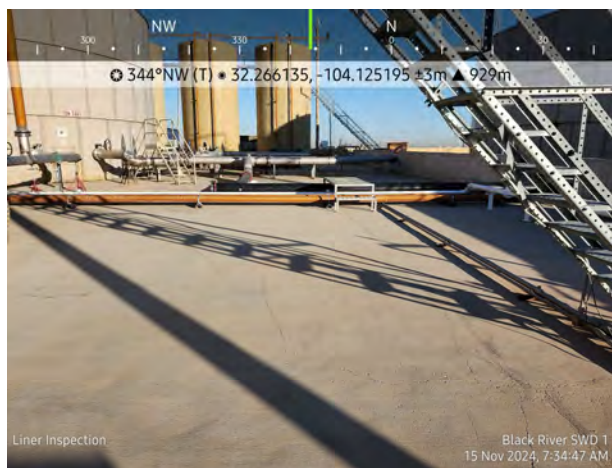


Photograph 24 Date: 11/15/2024
Description: Liner Integrity Inspection
View: South



Photographic Log

San Mateo Black River Water Management Company
Black River SWD 1
nAPP2421542116



Photograph 25 Date: 11/15/2024
Description: Liner Integrity Inspection
View: North



Photograph 26 Date: 11/15/2024
Description: Liner Integrity Inspection
View: Southwest



Photograph 27 Date: 11/15/2024
Description: Liner Integrity Inspection
View: North



Photograph 28 Date: 11/15/2024
Description: Liner Integrity Inspection
View: South



APPENDIX D

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: Black River SWD#1

Work Order: E408087

Job Number: 23003-0002

Received: 8/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/14/24

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: 8/14/24

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



Project Name: Black River SWD#1
Workorder: E408087
Date Received: 8/9/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/9/2024 6:30:00AM, under the Project Name: Black River SWD#1.

The analytical test results summarized in this report with the Project Name: Black River SWD#1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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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Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/14/24 09:15
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 - 0'	E408087-01A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.
SS04 - 0'	E408087-02A	Soil	08/07/24	08/09/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/14/2024 9:15:37AM

SS02 - 0'

E408087-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2432119
Benzene	ND	0.0250	1	08/09/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/09/24	
Toluene	ND	0.0250	1	08/09/24	08/09/24	
o-Xylene	ND	0.0250	1	08/09/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	08/09/24	08/09/24	
Surrogate: Toluene-d8		102 %	70-130	08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2432119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	08/09/24	08/09/24	
Surrogate: Toluene-d8		102 %	70-130	08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/09/24	
Surrogate: n-Nonane		89.7 %	50-200	08/09/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432127
Chloride	ND	200	10	08/09/24	08/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/14/2024 9:15:37AM
---	---	---

SS04 - 0'

E408087-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2432119
Benzene	ND	0.0250	1	08/09/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/09/24	08/09/24	
Toluene	ND	0.0250	1	08/09/24	08/09/24	
o-Xylene	ND	0.0250	1	08/09/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/09/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/09/24	08/09/24	
Surrogate: Toluene-d8		96.8 %	70-130	08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2432119
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/24	08/09/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/09/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/09/24	08/09/24	
Surrogate: Toluene-d8		96.8 %	70-130	08/09/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432138
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/24	08/09/24	
Surrogate: n-Nonane		95.5 %	50-200	08/09/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2432127
Chloride	243	200	10	08/09/24	08/10/24	



Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:15:37AM

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 (2432119-BLK1)Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2432119-BS1)Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	2.36	0.0250	2.50		94.2	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.6	70-130			
Toluene	2.23	0.0250	2.50		89.1	70-130			
o-Xylene	2.42	0.0250	2.50		96.7	70-130			
p,m-Xylene	4.87	0.0500	5.00		97.4	70-130			
Total Xylenes	7.29	0.0250	7.50		97.2	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

Matrix Spike (2432119-MS1)Source: E408085-09Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	2.45	0.0250	2.50	ND	97.9	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.39	0.0250	2.50	ND	95.5	48-130			
o-Xylene	2.59	0.0250	2.50	ND	104	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2432119-MSD1)Source: E408085-09Prepared: 08/09/24 Analyzed: 08/09/24

Benzene	2.33	0.0250	2.50	ND	93.0	48-131	5.11	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	0.714	27	
Toluene	2.28	0.0250	2.50	ND	91.3	48-130	4.45	24	
o-Xylene	2.66	0.0250	2.50	ND	106	43-135	2.67	27	
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135	1.80	27	
Total Xylenes	7.93	0.0250	7.50	ND	106	43-135	2.09	27	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:15:37AM

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 (2432119-BLK1) Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2432119-BS2) Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			

Matrix Spike (2432119-MS2) Source: E408085-09 Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	92.9	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2432119-MSD2) Source: E408085-09 Prepared: 08/09/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	2.49	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/14/2024 9:15:37AM

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 (2432138-BLK1) Prepared: 08/09/24 Analyzed: 08/09/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

LCS (2432138-BS1) Prepared: 08/09/24 Analyzed: 08/09/24

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			

Matrix Spike (2432138-MS1) Source: E408082-12 Prepared: 08/09/24 Analyzed: 08/09/24

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

Matrix Spike Dup (2432138-MSD1) Source: E408082-12 Prepared: 08/09/24 Analyzed: 08/09/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	2.96	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/14/2024 9:15:37AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432127-BLK1)					Prepared: 08/09/24 Analyzed: 08/10/24				
Chloride	ND	20.0							
LCS (2432127-BS1)					Prepared: 08/09/24 Analyzed: 08/10/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2432127-MS1)					Source: E408083-03		Prepared: 08/09/24 Analyzed: 08/10/24		
Chloride	283	20.0	250	27.4	102	80-120			
Matrix Spike Dup (2432127-MSD1)					Source: E408083-03		Prepared: 08/09/24 Analyzed: 08/10/24		
Chloride	283	20.0	250	27.4	102	80-120	0.0523	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:	Black River SWD#1	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/14/24 09:15

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

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

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E 408087		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Black River SWD#1				Address: 3122 National Parks Hwy										x				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information					Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
8:35	8/7/2024	Soil	1	SS02 - 0'		1						x						
11:37	8/7/2024	Soil	1	SS04 - 0'		2						x						
			1															
			1															
			1															
			1															
			1															
			1															
			1															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Brandon Deal																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Envirotech Analytical Laboratory

Printed: 8/9/2024 8:50:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/09/24 06:30	Work Order ID:	E408087
Phone:	(972) 371-5200	Date Logged In:	08/09/24 07:01	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/15/24 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

San Mateo Black River Water
Management Co.

Project Name: Black River SWD1

Work Order: E408171

Job Number: 23003-0002

Received: 8/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/26/24

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: 8/26/24

Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220



Project Name: Black River SWD1
Workorder: E408171
Date Received: 8/20/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 08/26/24 15:04
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E408171-01A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
BH01-1'	E408171-02A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
BH01-3'	E408171-03A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.
BH01-6'	E408171-04A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/26/2024 3:04:16PM
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BH01-0'
E408171-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434039	
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		108 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		108 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	33.2	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		114 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434037	
Chloride	39100	2000	100	08/20/24	08/21/24	

Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/26/2024 3:04:16PM
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BH01-1'

E408171-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434039	
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		106 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		106 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane		117 %	50-200	08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434037	
Chloride	5200	200	10	08/20/24	08/21/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/26/2024 3:04:16PM
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BH01-3'

E408171-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		111 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		104 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434026
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/21/24	
Surrogate: n-Nonane		120 %	50-200	08/20/24	08/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	2140	40.0	2	08/20/24	08/21/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/26/2024 3:04:16PM

BH01-6'

E408171-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Benzene	ND	0.0250	1	08/20/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/22/24	
Toluene	ND	0.0250	1	08/20/24	08/22/24	
o-Xylene	ND	0.0250	1	08/20/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		107 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434039
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/22/24	
Surrogate: Bromofluorobenzene		110 %	70-130	08/20/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130	08/20/24	08/22/24	
Surrogate: Toluene-d8		107 %	70-130	08/20/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434026
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/21/24	
Surrogate: n-Nonane		125 %	50-200	08/20/24	08/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434037
Chloride	372	20.0	1	08/20/24	08/21/24	



San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/26/2024 3:04:16PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

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 (2434039-BLK1)				Prepared: 08/20/24 Analyzed: 08/21/24					
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS (2434039-BS1)				Prepared: 08/20/24 Analyzed: 08/21/24					
Benzene	2.28	0.0250	2.50		91.1	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
o-Xylene	2.66	0.0250	2.50		106	70-130			
p,m-Xylene	5.32	0.0500	5.00		106	70-130			
Total Xylenes	7.98	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2434039-MS1)				Source: E408168-04	Prepared: 08/20/24 Analyzed: 08/21/24				
Benzene	2.28	0.0250	2.50	ND	91.0	48-131			
Ethylbenzene	2.39	0.0250	2.50	ND	95.6	45-135			
Toluene	2.48	0.0250	2.50	ND	99.1	48-130			
o-Xylene	2.62	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.25	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.87	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2434039-MSD1)				Source: E408168-04	Prepared: 08/20/24 Analyzed: 08/21/24				
Benzene	2.23	0.0250	2.50	ND	89.3	48-131	1.93	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.4	45-135	1.35	27	
Toluene	2.44	0.0250	2.50	ND	97.4	48-130	1.65	24	
o-Xylene	2.61	0.0250	2.50	ND	105	43-135	0.325	27	
p,m-Xylene	5.15	0.0500	5.00	ND	103	43-135	1.92	27	
Total Xylenes	7.76	0.0250	7.50	ND	103	43-135	1.39	27	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/26/2024 3:04:16PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

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 (2434039-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.579		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS (2434039-BS2) Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.3	70-130			
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike (2434039-MS2) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike Dup (2434039-MSD2) Source: E408168-04 Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130	10.2	20	
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/26/2024 3:04:16PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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 (2434026-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			

LCS (2434026-BS1) Prepared: 08/20/24 Analyzed: 08/21/24

Diesel Range Organics (C10-C28)	196	25.0	250		78.4	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2434026-MS1) Source: E408164-01 Prepared: 08/20/24 Analyzed: 08/21/24

Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.1	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike Dup (2434026-MSD1) Source: E408164-01 Prepared: 08/20/24 Analyzed: 08/21/24

Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.7	38-132	0.563	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/26/2024 3:04:16PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434037-BLK1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Chloride	ND	20.0							
LCS (2434037-BS1)					Prepared: 08/20/24 Analyzed: 08/20/24				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2434037-MS1)					Source: E408168-08		Prepared: 08/20/24 Analyzed: 08/20/24		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2434037-MSD1)					Source: E408168-08		Prepared: 08/20/24 Analyzed: 08/20/24		
Chloride	256	20.0	250	ND	102	80-120	0.105	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/26/24 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.



Page 72 of 270

Envirotech Analytical Laboratory

Printed: 8/20/2024 10:10:28AM

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:	San Mateo Black River Water Management Co.	Date Received:	08/20/24 05:00	Work Order ID:	E408171
Phone:	(575) 988-0055	Date Logged In:	08/20/24 05:53	Logged In By:	Keyliegh Hall
Email:		Due Date:	08/26/24 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? No
 - 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: N/A

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

San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E408176

Job Number: 23003-0002

Received: 8/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/27/24

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: 8/27/24



Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220

Project Name: Black River SWD1
Workorder: E408176
Date Received: 8/21/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/21/2024 5:00:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/27/24 07:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01D-0'	E408176-01A	Soil	08/19/24	08/21/24	Glass Jar, 2 oz.
SS03J-0'	E408176-02A	Soil	08/19/24	08/21/24	Glass Jar, 2 oz.
SS05N-0'	E408176-03A	Soil	08/19/24	08/21/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/27/2024 7:57:08AM
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SS01D-0'

E408176-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
o-Xylene	ND	0.0250	1	08/21/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	88.0 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434048	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	92.6 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434045	
Chloride	ND	200	10	08/21/24	08/21/24	

Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/27/2024 7:57:08AM

SS03J-0'

E408176-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
o-Xylene	ND	0.0250	1	08/21/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434048	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>						
	92.8 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434045	
Chloride	421	200	10	08/21/24	08/21/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/27/2024 7:57:08AM
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SS05N-0'

E408176-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Benzene	ND	0.0250	1	08/21/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/21/24	
Toluene	ND	0.0250	1	08/21/24	08/21/24	
o-Xylene	ND	0.0250	1	08/21/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		08/21/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434048	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2434045	
Chloride	ND	200	10	08/21/24	08/21/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/27/2024 7:57:08AM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434044-BLK1) Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

LCS (2434044-BS1) Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
o-Xylene	4.48	0.0250	5.00		89.5	70-130			
p,m-Xylene	9.15	0.0500	10.0		91.5	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

Matrix Spike (2434044-MS1) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.71	0.0250	5.00	ND	94.3	54-133			
Ethylbenzene	4.56	0.0250	5.00	ND	91.1	61-133			
Toluene	4.65	0.0250	5.00	ND	92.9	61-130			
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131			
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			

Matrix Spike Dup (2434044-MSD1) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133	4.92	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	4.83	20	
Toluene	4.88	0.0250	5.00	ND	97.6	61-130	4.92	20	
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	4.57	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	4.81	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131	4.73	20	
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/27/2024 7:57:08AM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434044-BLK1) Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS (2434044-BS2) Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0		80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike (2434044-MS2) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2434044-MSD2) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	38.8	20.0	50.0	ND	77.6	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.6	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/27/2024 7:57:08AM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434048-BLK1)					Prepared: 08/21/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			

LCS (2434048-BS1)					Prepared: 08/21/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			

Matrix Spike (2434048-MS1)					Source: E408175-21		Prepared: 08/21/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	1070	25.0	250	799	109	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike Dup (2434048-MSD1)					Source: E408175-21		Prepared: 08/21/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	1020	25.0	250	799	86.6	38-132	5.47	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/27/2024 7:57:08AM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

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 (2434045-BLK1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	ND	20.0							
LCS (2434045-BS1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434045-MS1)					Source: E408176-01		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	384	200	250	ND	154	80-120			M5
Matrix Spike Dup (2434045-MSD1)					Source: E408176-01		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	404	200	250	ND	161	80-120	4.86	20	M5

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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/27/24 07:57

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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.



Envirotech Analytical Laboratory

Printed: 8/21/2024 9:27:47AM

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:	San Mateo Black River Water Management Co.	Date Received:	08/21/24 05:00	Work Order ID:	E408176
Phone:	(575) 988-0055	Date Logged In:	08/20/24 16:03	Logged In By:	Raina Schwanz
Email:		Due Date:	08/27/24 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/Resolution

Visible white out on COC by client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client 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

San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E408187

Job Number: 23003-0002

Received: 8/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/28/24

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: 8/28/24



Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220

Project Name: Black River SWD1
Workorder: E408187
Date Received: 8/22/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2024 5:30:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/28/24 15:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 0'	E408187-01A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH02 - 2'	E408187-02A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH03 - 0'	E408187-03A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH03 - 2'	E408187-04A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH03 - 3'	E408187-05A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 0'	E408187-06A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 2'	E408187-07A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 4'	E408187-08A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 6'	E408187-09A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 8'	E408187-10A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 10'	E408187-11A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 12'	E408187-12A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 14'	E408187-13A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 16'	E408187-14A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH04 - 18'	E408187-15A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH05 - 0'	E408187-16A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH05 - 1'	E408187-17A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH06 - 0'	E408187-18A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH06 - 1'	E408187-19A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH07 - 0'	E408187-20A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH07 - 2'	E408187-21A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.
BH07 - 4'	E408187-22A	Soil	08/20/24	08/22/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH02 - 0'

E408187-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	08/22/24	08/23/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.5 %	70-130	08/22/24	08/23/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	08/22/24	08/23/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.5 %	70-130	08/22/24	08/23/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
<i>Surrogate: n-Nonane</i>		83.2 %	50-200	08/22/24	08/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	18400	1000	50	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH02 - 2'

E408187-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane	86.0 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	6700	400	20	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH03 - 0'

E408187-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane	92.2 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	2090	200	10	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH03 - 2'

E408187-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane		99.9 %	50-200	08/22/24	08/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434068
Chloride	85.6	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH03 - 3'

E408187-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane		87.4 %	50-200	08/22/24	08/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434068
Chloride	151	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH04 - 0'
E408187-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	104 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	104 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	51.5	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	58.9	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane	93.6 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	5380	200	10	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH04 - 2'
E408187-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/26/24	
Surrogate: n-Nonane	96.5 %	50-200		08/22/24	08/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	1200	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH04 - 4'

E408187-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	105 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	105 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	101 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434068
Chloride	1090	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH04 - 6'
E408187-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	98.8 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	1810	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH04 - 8'**E408187-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	102 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	717	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH04 - 10'

E408187-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: DL		Batch: 2434061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		107 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434056
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		101 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434068
Chloride	900	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH04 - 12'
E408187-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		100 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	971	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH04 - 14'
E408187-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	103 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	1090	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH04 - 16'

E408187-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		96.6 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	744	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH04 - 18'

E408187-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		96.7 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	501	200	10	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH05 - 0'**E408187-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		105 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		105 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		98.3 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	4830	200	10	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH05 - 1'

E408187-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	100 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	96.7 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	402	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/28/2024 3:24:42PM
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BH06 - 0'

E408187-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	107 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	102 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	1320	200	10	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH06 - 1'

E408187-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		106 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane		98.0 %	50-200	08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	348	200	10	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH07 - 0'

E408187-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: DL		Batch: 2434061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene	102 %	70-130		08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		08/22/24	08/23/24	
Surrogate: Toluene-d8	106 %	70-130		08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434056	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/27/24	
Surrogate: n-Nonane	94.2 %	50-200		08/22/24	08/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2434068	
Chloride	12700	400	20	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH07 - 2'

E408187-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		99.6 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		99.6 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434055
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/22/24	
Surrogate: n-Nonane		59.7 %	50-200	08/22/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434063
Chloride	1020	20.0	1	08/22/24	08/22/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/28/2024 3:24:42PM

BH07 - 4'

E408187-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434055
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/22/24	
Surrogate: n-Nonane		64.3 %	50-200	08/22/24	08/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434063
Chloride	124	20.0	1	08/22/24	08/22/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

Volatile Organic Compounds by EPA 8260B

Analyst: DL

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

Blank (2434061-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

LCS (2434061-BS1) Prepared: 08/22/24 Analyzed: 08/28/24

Benzene	2.40	0.0250	2.50		96.0	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.8	70-130			
Toluene	2.42	0.0250	2.50		96.7	70-130			
o-Xylene	2.32	0.0250	2.50		92.8	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.5	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2434061-MS1) Source: E408187-04 Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	2.17	0.0250	2.50	ND	86.7	48-131			
Ethylbenzene	2.11	0.0250	2.50	ND	84.4	45-135			
Toluene	2.14	0.0250	2.50	ND	85.8	48-130			
o-Xylene	2.02	0.0250	2.50	ND	80.8	43-135			
p,m-Xylene	4.02	0.0500	5.00	ND	80.5	43-135			
Total Xylenes	6.04	0.0250	7.50	ND	80.6	43-135			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike Dup (2434061-MSD1) Source: E408187-04 Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	2.29	0.0250	2.50	ND	91.6	48-131	5.50	23	
Ethylbenzene	2.24	0.0250	2.50	ND	89.7	45-135	6.16	27	
Toluene	2.27	0.0250	2.50	ND	90.7	48-130	5.60	24	
o-Xylene	2.19	0.0250	2.50	ND	87.5	43-135	7.99	27	
p,m-Xylene	4.38	0.0500	5.00	ND	87.6	43-135	8.53	27	
Total Xylenes	6.57	0.0250	7.50	ND	87.6	43-135	8.35	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/28/2024 3:24:42PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434062-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2434062-BS1) Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.11	0.0250	2.50		84.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.7	70-130			
Toluene	2.12	0.0250	2.50		84.8	70-130			
o-Xylene	2.33	0.0250	2.50		93.3	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.5	70-130			
Total Xylenes	7.01	0.0250	7.50		93.5	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2434062-MS1) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.37	0.0250	2.50	ND	94.7	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135			
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135			
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike Dup (2434062-MSD1) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.52	0.0250	2.50	ND	101	48-131	0.199	23	
Ethylbenzene	2.51	0.0250	2.50	ND	101	45-135	0.558	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	0.106	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	1.97	27	
p,m-Xylene	5.02	0.0500	5.00	ND	100	43-135	1.52	27	
Total Xylenes	7.54	0.0250	7.50	ND	100	43-135	1.67	27	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/28/2024 3:24:42PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: DL

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 (2434061-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

LCS (2434061-BS2) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike (2434061-MS2) Source: E408187-04 Prepared: 08/22/24 Analyzed: 08/23/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2434061-MSD2) Source: E408187-04 Prepared: 08/22/24 Analyzed: 08/23/24

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.2	70-130	3.32	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/28/2024 3:24:42PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434062-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2434062-BS2) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2434062-MS2) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike Dup (2434062-MSD2) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	0.233	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/28/2024 3:24:42PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434055-BLK1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.2		50.0		86.5	50-200			

LCS (2434055-BS1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Diesel Range Organics (C10-C28)	199	25.0	250		79.7	38-132			
Surrogate: n-Nonane	41.4		50.0		82.7	50-200			

Matrix Spike (2434055-MS1)					Source: E408183-01		Prepared: 08/22/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	200	25.0	250	ND	80.0	38-132			
Surrogate: n-Nonane	42.2		50.0		84.3	50-200			

Matrix Spike Dup (2434055-MSD1)					Source: E408183-01		Prepared: 08/22/24 Analyzed: 08/22/24		
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.6	38-132	0.829	20	
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/28/2024 3:24:42PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434056-BLK1) Prepared: 08/22/24 Analyzed: 08/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

LCS (2434056-BS1) Prepared: 08/22/24 Analyzed: 08/26/24

Diesel Range Organics (C10-C28)	218	25.0	250		87.1	38-132			
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			

Matrix Spike (2434056-MS1) Source: E408187-08 Prepared: 08/22/24 Analyzed: 08/26/24

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	38-132			
Surrogate: n-Nonane	50.1		50.0		100	50-200			

Matrix Spike Dup (2434056-MSD1) Source: E408187-08 Prepared: 08/22/24 Analyzed: 08/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.7	38-132	1.42	20	
Surrogate: n-Nonane	49.5		50.0		99.1	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/28/2024 3:24:42PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434063-BLK1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	ND	20.0							
LCS (2434063-BS1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2434063-MS1)					Source: E408184-04		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	341	20.0	250	79.8	105	80-120			
Matrix Spike Dup (2434063-MSD1)					Source: E408184-04		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	339	20.0	250	79.8	104	80-120	0.678	20	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 3:24:42PM

Anions by EPA 300.0/9056A

Analyst: WF

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 (2434068-BLK1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	ND	20.0							
LCS (2434068-BS1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2434068-MS1)					Source: E408187-03		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	2290	200	250	2090	80.1	80-120			
Matrix Spike Dup (2434068-MSD1)					Source: E408187-03		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	2320	200	250	2090	91.9	80-120	1.29	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/24 15:24

- 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 Information				Invoice Information		Lab Use Only		TAT				State						
Client: <u>San Mateo Black River Water Management Company</u>				Company: <u>Ensolum LLC</u>		Lab WO# <u>E408187</u>		Job Number <u>23003-0002</u>		1D	2D	3D	Std	NM	CO	UT	TX	
Project: <u>Black River SWD 1</u>				Address: <u>3122 National Parks Hwy</u>										<input checked="" type="checkbox"/>				
Project Manager: <u>Ashley Giovengo</u>				City, State, Zip: <u>Carlsbad NM, 88220</u>														
Address: <u>3122 National Parks Hwy</u>				Phone: <u>575-988-0055</u>														
City, State, Zip: <u>Carlsbad NM, 88220</u>				Email: <u>agiovengo@ensolum.com</u>														
Phone: <u>575-988-0055</u>				Miscellaneous:														
Email: <u>agiovengo@ensolum.com</u>																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
8:27	8/20/24	Soil	1	BH02-0'		1						X						
9:30				BH02-2'		2						X						
8:27				BH03-0'		3						X						
9:17				BH03-2'		4						X						
10:27				BH03-3'		5						X						
10:12				BH04-0'		6						X						
10:23				BH04-2'		7						X						
10:27				BH04-4'		8						X						
11:18				BH04-6'		9						X						
11:35				BH04-8'		10						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: <u>Cole Burton and Bowan Simmons</u>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days										
<u>[Signature]</u>		8/21/24	10:15	<u>[Signature]</u>		8-21-24	1015											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<u>[Signature]</u>		8-21-24	1545	<u>[Signature]</u>		8-21-24	1745	Received on ice: <input checked="" type="checkbox"/> Y/ N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1										
<u>[Signature]</u>		8-21-24	2345	<u>[Signature]</u>		8-22-24	0530	T2										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3										
<u>[Signature]</u>				<u>[Signature]</u>				AVG Temp °C <u>4</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Chain of Custody

Page 2 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: <u>San Mateo Black River Water Management Company</u>				Company: <u>Ensolum LLC</u>		Lab WO# <u>E408187</u>		Job Number <u>23003-002</u>		1D	2D	3D	Std	NM	CO	UT	TX
Project: <u>Black River SWD 1</u>				Address: <u>3122 National Parks Hwy</u>										<input checked="" type="checkbox"/>			
Project Manager: <u>Ashley Giovengo</u>				City, State, Zip: <u>Carlsbad NM, 88220</u>													
Address: <u>3122 National Parks Hwy</u>				Phone: <u>575-988-0055</u>													
City, State, Zip: <u>Carlsbad NM, 88220</u>				Email: <u>agiovengo@ensolum.com</u>													
Phone: <u>575-988-0055</u>				Miscellaneous:													
Email: <u>agiovengo@ensolum.com</u>																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1157	8/20/24	Soil	1	BH04-10'		11						X					
1337				BH04-12'		12						X					
1400				BH04-14'		13						X					
1422				BH04-16'		14						X					
1450				BH04-18'		15						X					
1122				BH05-0'		16						X					
1134				BH05-1'		17						X					
1343				BH06-0'		18						X					
1350				BH06-1'		19						X					
1418				BH07-0'		20						X					
Additional Instructions: Please CC: cburton@ensolum.com , agiovengo@ensolum.com , iestrella@ensolum.com , bdeal@ensolum.com , chamilton@ensolum.com , bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: <u>Cole Burton and Bowan Simmons</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Envirotech Analytical Laboratory

Printed: 8/22/2024 12:46:07PM

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:	San Mateo Black River Water Management Co.	Date Received:	08/22/24 05:30	Work Order ID:	E408187
Phone:	(575) 988-0055	Date Logged In:	08/21/24 16:48	Logged In By:	Noe Soto
Email:		Due Date:	08/28/24 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

San Mateo Black River Water
Management Co.

Project Name: Black River SWD1

Work Order: E408195

Job Number: 23003-0002

Received: 8/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/29/24

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: 8/29/24

Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220



Project Name: Black River SWD1
Workorder: E408195
Date Received: 8/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2024 5:30:00AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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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Sample Summary

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/29/24 13:22
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 - 0'	E408195-01A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH08 - 1'	E408195-02A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 0	E408195-03A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 2'	E408195-04A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 4'	E408195-05A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH09 - 6'	E408195-06A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH10 - 0'	E408195-07A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH10 - 2'	E408195-08A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH10 - 3'	E408195-09A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH11 - 0'	E408195-10A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH11 - 1'	E408195-11A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH12 - 0'	E408195-12A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
BH12 - 1'	E408195-13A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
--	--	----------------------------------

BH08 - 0'

E408195-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434083	
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434077	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		95.0 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434085	
Chloride	ND	100	5	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/29/2024 1:22:30PM

BH08 - 1'

E408195-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		101 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	300	200	10	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH09 - 0

E408195-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		106 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	156	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	92.7	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		104 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	41500	2000	100	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH09 - 2'

E408195-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		96.0 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	4090	400	20	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/29/2024 1:22:30PM

BH09 - 4'

E408195-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		97.4 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	593	20.0	1	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH09 - 6'

E408195-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		96.0 %	50-200	08/23/24	08/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	265	20.0	1	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/29/2024 1:22:30PM

BH10 - 0'

E408195-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		105 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		96.2 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	9520	400	20	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH10 - 2'

E408195-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.0 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.0 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		104 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	611	200	10	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/29/2024 1:22:30PM

BH10 - 3'

E408195-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		106 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		106 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		101 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	317	20.0	1	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH11 - 0'

E408195-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		99.2 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	1930	200	10	08/23/24	08/23/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH11 - 1'

E408195-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		108 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		97.2 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	270	200	10	08/23/24	08/24/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:22:30PM
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BH12 - 0'

E408195-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		106 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	415	200	10	08/23/24	08/24/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/29/2024 1:22:30PM

BH12 - 1'

E408195-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		121 %	50-200	08/23/24	08/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434085
Chloride	321	40.0	2	08/23/24	08/24/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/29/2024 1:22:30PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

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 (2434083-BLK1) Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS1) Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.20	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.22	0.0250	2.50		88.6	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.33	0.0250	2.50		93.2	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.90	0.0250	7.50		92.0	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2434083-MS1) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.15	0.0250	2.50	ND	86.1	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.38	0.0250	2.50	ND	95.4	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.2	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.7	43-135			
Total Xylenes	7.34	0.0250	7.50	ND	97.9	43-135			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike Dup (2434083-MSD1) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.19	0.0250	2.50	ND	87.5	48-131	1.57	23	
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135	1.08	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	1.21	24	
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135	1.41	27	
p,m-Xylene	4.94	0.0500	5.00	ND	98.7	43-135	1.02	27	
Total Xylenes	7.43	0.0250	7.50	ND	99.0	43-135	1.15	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/29/2024 1:22:30PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

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 (2434083-BLK1) Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS2) Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike (2434083-MS2) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike Dup (2434083-MSD2) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/29/2024 1:22:30PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434077-BLK1) Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

LCS (2434077-BS1) Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2434077-MS1) Source: E408195-01 Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Matrix Spike Dup (2434077-MSD1) Source: E408195-01 Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	3.11	20	
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 8/29/2024 1:22:30PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434085-BLK1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	ND	20.0							
LCS (2434085-BS1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434085-MS1)					Source: E408192-02		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	285	20.0	250	31.0	102	80-120			
Matrix Spike Dup (2434085-MSD1)					Source: E408192-02		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	284	20.0	250	31.0	101	80-120	0.424	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:22

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: <u>San Mateo Black River Water Management Company</u>				Company: <u>Ensolum LLC</u>		Lab WO# <u>E408195</u>		Job Number <u>23003-0002</u>		1D	2D	3D	Std	NM	CO	UT	TX	
Project: <u>Black River SWD 1</u>				Address: <u>3122 National Parks Hwy</u>										<input checked="" type="checkbox"/>				
Project Manager: <u>Ashley Giovengo</u>				City, State, Zip: <u>Carlsbad NM, 88220</u>														
Address: <u>3122 National Parks Hwy</u>				Phone: <u>575-988-0055</u>														
City, State, Zip: <u>Carlsbad NM, 88220</u>				Email: <u>agiovengo@ensolum.com</u>														
Phone: <u>575-988-0055</u>				Miscellaneous:														
Email: <u>agiovengo@ensolum.com</u>																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
902	8/21/24	Soil	1	BH08-0'			1						X					
905				BH08-1'			2						X					
921				BH09-0			3						X					
1013				BH09-2'			4						X					
1023				BH09-4'			5						X					
1107				BH09-6'			6						X					
923				BH10-0'			7						X					
932				BH10-2'			8						X					
935				BH10-3'			9						X					
957				BH11-0'			10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: <u>Cole Burton and Bowan Simmons</u>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State			
Client: <u>San Mateo Black River Water Management Company</u>				Company: <u>Ensolum LLC</u>		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: <u>Black River SWD 1</u>				Address: <u>3122 National Parks Hwy</u>		<u>E408195</u>	<u>23003-0002</u>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Project Manager: <u>Ashley Giovengo</u>				City, State, Zip: <u>Carlsbad NM, 88220</u>											
Address: <u>3122 National Parks Hwy</u>				Phone: <u>575-988-0055</u>											
City, State, Zip: <u>Carlsbad NM, 88220</u>				Email: <u>agiovengo@ensolum.com</u>											
Phone: <u>575-988-0055</u>				Miscellaneous:											
Email: <u>agiovengo@ensolum.com</u>															
Sample Information															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
1007	8/21/24	Soil	1	BH11-1'		11						X			
1033				BH12-0'		12						X			
1040				BH12-1'		13						X			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.															
Sampled by: <u>Cole Burton and Bowan Simmons</u>															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<div>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</div> <div>Lab Use Only</div> <div>Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____															
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



Envirotech Analytical Laboratory

Printed: 8/23/2024 10:50:58AM

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:	San Mateo Black River Water Management Co.	Date Received:	08/23/24 05:30	Work Order ID:	E408195
Phone:	(575) 988-0055	Date Logged In:	08/22/24 16:59	Logged In By:	Noe Soto
Email:		Due Date:	08/29/24 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: Black River SWD#1

Work Order: E409094

Job Number: 23003-0002

Received: 9/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/17/24

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: 9/17/24

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



Project Name: Black River SWD#1
Workorder: E409094
Date Received: 9/13/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Black River SWD#1.

The analytical test results summarized in this report with the Project Name: Black River SWD#1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 09/17/24 11:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS06 - 0'	E409094-01A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06 - 1'	E409094-02A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06A - 0'	E409094-03A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06A - 1'	E409094-04A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06B - 0'	E409094-05A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06B - 1'	E409094-06A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06C - 0'	E409094-07A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06C - 1'	E409094-08A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06D - 0'	E409094-09A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.
SS06D - 1'	E409094-10A	Soil	09/11/24	09/13/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06 - 0'

E409094-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	09/13/24	09/13/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.2 %	70-130	09/13/24	09/13/24	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	09/13/24	09/13/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.2 %	70-130	09/13/24	09/13/24	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
<i>Surrogate: n-Nonane</i>		74.6 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	5580	200	10	09/13/24	09/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:57:38AM
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SS06 - 1'

E409094-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		80.3 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	227	200	10	09/13/24	09/14/24	



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06A - 0'

E409094-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		110 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		110 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		79.8 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	1870	200	10	09/13/24	09/14/24	



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06A - 1'

E409094-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		77.5 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	149	40.0	2	09/13/24	09/14/24	



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06B - 0'

E409094-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		77.9 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	823	200	10	09/13/24	09/14/24	



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06B - 1'

E409094-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		78.4 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	290	200	10	09/13/24	09/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:57:38AM
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SS06C - 0'
E409094-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437075	
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437091	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		79.1 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437097	
Chloride	530	200	10	09/13/24	09/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Black River SWD#1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/17/2024 11:57:38AM
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SS06C - 1'
E409094-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		83.7 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06D - 0'

E409094-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		107 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		84.3 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	241	200	10	09/13/24	09/14/24	



Sample Data

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

Project Name: Black River SWD#1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/17/2024 11:57:38AM

SS06D - 1'

E409094-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Benzene	ND	0.0250	1	09/13/24	09/13/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/13/24	
Toluene	ND	0.0250	1	09/13/24	09/13/24	
o-Xylene	ND	0.0250	1	09/13/24	09/13/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/13/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437075
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/13/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/13/24	09/13/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437091
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/15/24	
Surrogate: n-Nonane		75.6 %	50-200	09/13/24	09/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437097
Chloride	206	200	10	09/13/24	09/14/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:57:38AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2437075-BLK1) Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2437075-BS1) Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	2.16	0.0250	2.50		86.2	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.65	0.0500	5.00		92.9	70-130			
Total Xylenes	6.96	0.0250	7.50		92.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2437075-MS1) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	2.12	0.0250	2.50	ND	84.7	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135			
Toluene	2.30	0.0250	2.50	ND	91.9	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.4	43-135			
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135			
Total Xylenes	6.86	0.0250	7.50	ND	91.4	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2437075-MSD1) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Benzene	1.87	0.0250	2.50	ND	74.9	48-131	12.3	23	
Ethylbenzene	2.05	0.0250	2.50	ND	82.0	45-135	12.3	27	
Toluene	2.05	0.0250	2.50	ND	82.2	48-130	11.1	24	
o-Xylene	2.07	0.0250	2.50	ND	82.9	43-135	9.68	27	
p,m-Xylene	4.13	0.0500	5.00	ND	82.6	43-135	10.1	27	
Total Xylenes	6.21	0.0250	7.50	ND	82.7	43-135	9.98	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:57:38AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2437075-BLK1) Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2437075-BS2) Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2437075-MS2) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike Dup (2437075-MSD2) Source: E409094-02 Prepared: 09/13/24 Analyzed: 09/13/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	2.08	20	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:57:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2437091-BLK1) Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			

LCS (2437091-BS1) Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	200	25.0	250		80.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.3	50-200			

Matrix Spike (2437091-MS1) Source: E409093-09 Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	207	25.0	250	ND	83.0	38-132			
Surrogate: n-Nonane	40.4		50.0		80.7	50-200			

Matrix Spike Dup (2437091-MSD1) Source: E409093-09 Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.4	38-132	1.88	20	
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Black River SWD#1	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/17/2024 11:57:38AM

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 (2437097-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437097-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2437097-MS1)					Source: E409094-04		Prepared: 09/13/24 Analyzed: 09/14/24		
Chloride	404	40.0	250	149	102	80-120			
Matrix Spike Dup (2437097-MSD1)					Source: E409094-04		Prepared: 09/13/24 Analyzed: 09/14/24		
Chloride	401	40.0	250	149	101	80-120	0.599	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:	Black River SWD#1	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/17/24 11:57

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

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

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

Chain of Custody

Page 1 of 1

Received by OCD: 12/4/2024 12:00:24 AM

12 fo 02 egep

Page 172 of 270

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std		NM CO UT TX							
Project: Black River SWD 2				Address: 3122 National Parks Hwy		E409094		Job Number		23003-0002							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
8:12	9/11/24	Soil	1	SS06-0		1						X					
8:48				SS06-1		2						X					
8:14				SS06A-0		3						X					
9:08				SS06A-1		4						X					
8:16				SS06B-0		5						X					
9:15				SS06B-1		6						X					
8:18				SS06C-0		7						X					
9:20				SS06C-1		8						X					
8:20				SS06D-0		9						X					
9:24				SS06D-1		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Chad Hamilton and Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 9/13/2024 9:02:26AM

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:	09/13/24 07:45	Work Order ID:	E409094
Phone:	(972) 371-5200	Date Logged In:	09/12/24 12:59	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/19/24 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: CouierComments/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

San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E411135

Job Number: 23003-0002

Received: 11/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

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: 11/15/24

Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220



Project Name: Black River SWD1
Workorder: E411135
Date Received: 11/14/2024 8:00:57AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/14/2024 8:00:57AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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
rainaschwanz@envirotech-inc.com

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mgonzaless@envirotech-inc.com

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Sample Summary

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/15/24 14:29
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03 @ 2'	E411135-01A	Soil	11/12/24	11/14/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/15/2024 2:29:10PM

FS03 @ 2'

E411135-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Benzene	ND	0.0250	1	11/14/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/14/24	
Toluene	ND	0.0250	1	11/14/24	11/14/24	
o-Xylene	ND	0.0250	1	11/14/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/14/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.0 %	70-130	11/14/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	70-130	11/14/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2446115	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/14/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	11/14/24	11/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2446112	
Chloride	968	200	10	11/14/24	11/14/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/15/2024 2:29:10PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446117-BLK1)

Prepared: 11/14/24 Analyzed: 11/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

LCS (2446117-BS1)

Prepared: 11/14/24 Analyzed: 11/14/24

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.8	70-130			
Toluene	4.69	0.0250	5.00		93.7	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.1	0.0250	15.0		94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

LCS Dup (2446117-BSD1)

Prepared: 11/14/24 Analyzed: 11/14/24

Benzene	4.93	0.0250	5.00		98.6	70-130	6.73	20	
Ethylbenzene	4.98	0.0250	5.00		99.5	70-130	7.04	20	
Toluene	5.01	0.0250	5.00		100	70-130	6.68	20	
o-Xylene	5.00	0.0250	5.00		100	70-130	6.77	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	6.89	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	6.85	20	
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/15/2024 2:29:10PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446117-BLK1) Prepared: 11/14/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2446117-BS2) Prepared: 11/14/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	38.7	20.0	50.0		77.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS Dup (2446117-BSD2) Prepared: 11/14/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.6	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/15/2024 2:29:10PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446115-BLK1)					Prepared: 11/14/24 Analyzed: 11/14/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.7		50.0		115	50-200			

LCS (2446115-BS1)					Prepared: 11/14/24 Analyzed: 11/14/24				
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike (2446115-MS1)					Source: E411137-03		Prepared: 11/14/24 Analyzed: 11/14/24		
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

Matrix Spike Dup (2446115-MSD1)					Source: E411137-03		Prepared: 11/14/24 Analyzed: 11/15/24		
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	5.44	20	
Surrogate: n-Nonane	60.5		50.0		121	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/15/2024 2:29:10PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Anions by EPA 300.0/9056A

Analyst: WF

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 (2446112-BLK1)						Prepared: 11/13/24 Analyzed: 11/14/24			
Chloride	ND	20.0							
LCS (2446112-BS1)						Prepared: 11/13/24 Analyzed: 11/14/24			
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446112-BSD1)						Prepared: 11/13/24 Analyzed: 11/14/24			
Chloride	257	20.0	250		103	90-110	0.230	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/24 14:29

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 11/14/2024 8:40:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	San Mateo Black River Water Management Co.	Date Received:	11/14/24 08:00	Work Order ID:	E411135
Phone:	(575) 988-0055	Date Logged In:	11/13/24 13:47	Logged In By:	Caitlin Mars
Email:		Due Date:	11/14/24 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: CourierComments/Resolution

Client Comment- RUSH CHLORIDES ONLY- If Chlorides >600 DONT RUN OTHER TESTS

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

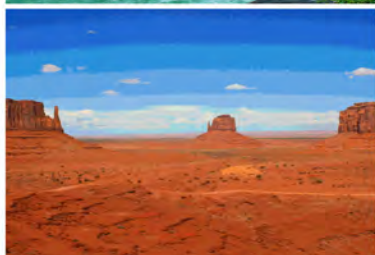
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

San Mateo Black River Water
Management Co.

Project Name: Black River SWD1

Work Order: E411139

Job Number: 23003-0002

Received: 11/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

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: 11/18/24

Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220



Project Name: Black River SWD1
Workorder: E411139
Date Received: 11/14/2024 8:00:57AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/14/2024 8:00:57AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/18/24 11:31
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 @ 1'	E411139-01A	Soil	11/12/24	11/14/24	Glass Jar, 2 oz.
FS02 @ 1'	E411139-02A	Soil	11/12/24	11/14/24	Glass Jar, 2 oz.
FS04 @ 4'	E411139-03A	Soil	11/12/24	11/14/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/18/2024 11:31:49AM
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FS01 @ 1'
E411139-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Benzene	ND	0.0250	1	11/14/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/16/24	
Toluene	ND	0.0250	1	11/14/24	11/16/24	
o-Xylene	ND	0.0250	1	11/14/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/14/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/16/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2446115	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/15/24	
Surrogate: n-Nonane	118 %	50-200		11/14/24	11/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2446112	
Chloride	345	40.0	2	11/14/24	11/14/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/18/2024 11:31:49AM
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FS02 @ 1'
E411139-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Benzene	ND	0.0250	1	11/14/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/16/24	
Toluene	ND	0.0250	1	11/14/24	11/16/24	
o-Xylene	ND	0.0250	1	11/14/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/14/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.2 %	70-130		11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2446115	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/15/24	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		11/14/24	11/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2446112	
Chloride	180	40.0	2	11/14/24	11/14/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/18/2024 11:31:49AM
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FS04 @ 4'
E411139-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Benzene	ND	0.0250	1	11/14/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/14/24	11/16/24	
Toluene	ND	0.0250	1	11/14/24	11/16/24	
o-Xylene	ND	0.0250	1	11/14/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/14/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/14/24	11/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.9 %	70-130		11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2446117	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/24	11/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		11/14/24	11/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2446115	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/14/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/14/24	11/15/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		11/14/24	11/15/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2446112	
Chloride	512	40.0	2	11/14/24	11/14/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/18/2024 11:31:49AM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446117-BLK1) Prepared: 11/14/24 Analyzed: 11/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

LCS (2446117-BS1) Prepared: 11/14/24 Analyzed: 11/14/24

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.8	70-130			
Toluene	4.69	0.0250	5.00		93.7	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.1	0.0250	15.0		94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

LCS Dup (2446117-BSD1) Prepared: 11/14/24 Analyzed: 11/14/24

Benzene	4.93	0.0250	5.00		98.6	70-130	6.73	20	
Ethylbenzene	4.98	0.0250	5.00		99.5	70-130	7.04	20	
Toluene	5.01	0.0250	5.00		100	70-130	6.68	20	
o-Xylene	5.00	0.0250	5.00		100	70-130	6.77	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	6.89	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	6.85	20	
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/18/2024 11:31:49AM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446117-BLK1) Prepared: 11/14/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2446117-BS2) Prepared: 11/14/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	38.7	20.0	50.0		77.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS Dup (2446117-BSD2) Prepared: 11/14/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.6	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 11:31:49AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446115-BLK1) Prepared: 11/14/24 Analyzed: 11/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.7		50.0		115	50-200			

LCS (2446115-BS1) Prepared: 11/14/24 Analyzed: 11/14/24

Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike (2446115-MS1) Source: E411137-03 Prepared: 11/14/24 Analyzed: 11/14/24

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

Matrix Spike Dup (2446115-MSD1) Source: E411137-03 Prepared: 11/14/24 Analyzed: 11/15/24

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	5.44	20	
Surrogate: n-Nonane	60.5		50.0		121	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/2024 11:31:49AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2446112-BLK1)					Prepared: 11/13/24 Analyzed: 11/14/24				
Chloride	ND	20.0							
LCS (2446112-BS1)					Prepared: 11/13/24 Analyzed: 11/14/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446112-BSD1)					Prepared: 11/13/24 Analyzed: 11/14/24				
Chloride	257	20.0	250		103	90-110	0.230	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 11:31

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 11/14/2024 9:17:21AM

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:	San Mateo Black River Water Management Co.	Date Received:	11/14/24 08:00	Work Order ID:	E411139
Phone:	(575) 988-0055	Date Logged In:	11/13/24 14:25	Logged In By:	Caitlin Mars
Email:		Due Date:	11/20/24 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

San Mateo Black River Water Management Co.

Project Name: Black River SWD1

Work Order: E411149

Job Number: 23003-0002

Received: 11/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

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: 11/18/24

Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220



Project Name: Black River SWD1
Workorder: E411149
Date Received: 11/15/2024 6:30:37AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2024 6:30:37AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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
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Sample Summary

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported:
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 17:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01- 0-1.5'	E411149-01A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/18/2024 5:09:55PM
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SW01- 0-1.5'
E411149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2446145	
Benzene	ND	0.0250	1	11/15/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/15/24	
Toluene	ND	0.0250	1	11/15/24	11/15/24	
o-Xylene	ND	0.0250	1	11/15/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		11/15/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2446145	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		11/15/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2446149	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/16/24	
Surrogate: n-Nonane	98.3 %	50-200		11/15/24	11/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2446159	
Chloride	588	40.0	2	11/15/24	11/16/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/18/2024 5:09:55PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446145-BLK1)

Prepared: 11/15/24 Analyzed: 11/15/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.3	70-130			

LCS (2446145-BS1)

Prepared: 11/15/24 Analyzed: 11/15/24

Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.88	0.0250	5.00		97.7	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.03		8.00		87.9	70-130			

LCS Dup (2446145-BSD1)

Prepared: 11/15/24 Analyzed: 11/15/24

Benzene	4.53	0.0250	5.00		90.7	70-130	2.33	20	
Ethylbenzene	4.76	0.0250	5.00		95.2	70-130	1.68	20	
Toluene	4.75	0.0250	5.00		94.9	70-130	2.07	20	
o-Xylene	4.80	0.0250	5.00		96.0	70-130	1.76	20	
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130	1.74	20	
Total Xylenes	14.5	0.0250	15.0		96.6	70-130	1.74	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/18/2024 5:09:55PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446145-BLK1) Prepared: 11/15/24 Analyzed: 11/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			

LCS (2446145-BS2) Prepared: 11/15/24 Analyzed: 11/15/24

Gasoline Range Organics (C6-C10)	37.9	20.0	50.0		75.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS Dup (2446145-BSD2) Prepared: 11/15/24 Analyzed: 11/16/24

Gasoline Range Organics (C6-C10)	38.3	20.0	50.0		76.7	70-130	1.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/18/2024 5:09:55PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2446149-BLK1)					Prepared: 11/15/24 Analyzed: 11/15/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			

LCS (2446149-BS1)					Prepared: 11/15/24 Analyzed: 11/15/24				
Diesel Range Organics (C10-C28)	266	25.0	250		107	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike (2446149-MS1)					Source: E411147-12		Prepared: 11/15/24 Analyzed: 11/15/24		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			

Matrix Spike Dup (2446149-MSD1)					Source: E411147-12		Prepared: 11/15/24 Analyzed: 11/15/24		
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	0.277	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/18/2024 5:09:55PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446159-BLK1)					Prepared: 11/15/24 Analyzed: 11/16/24				
Chloride	ND	20.0							
LCS (2446159-BS1)					Prepared: 11/15/24 Analyzed: 11/16/24				
Chloride	250	20.0	250		100	90-110			
LCS Dup (2446159-BSD1)					Prepared: 11/15/24 Analyzed: 11/16/24				
Chloride	250	20.0	250		99.9	90-110	0.116	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/18/24 17:09

- 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]

Envirotech Analytical Laboratory

Printed: 11/15/2024 8:51:11AM

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:	San Mateo Black River Water Management Co.	Date Received:	11/15/24 06:30	Work Order ID:	E411149
Phone:	(575) 988-0055	Date Logged In:	11/14/24 14:16	Logged In By:	Caitlin Mars
Email:		Due Date:	11/21/24 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

San Mateo Black River Water
Management Co.

Project Name: Black River SWD1

Work Order: E411153

Job Number: 23003-0002

Received: 11/15/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/20/24

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: 11/20/24

Ashley Giovengo
3122 National Parks Hwy.
Carlsbad, NM 88220



Project Name: Black River SWD1
Workorder: E411153
Date Received: 11/15/2024 6:30:37AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/15/2024 6:30:37AM, under the Project Name: Black River SWD1.

The analytical test results summarized in this report with the Project Name: Black River SWD1 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
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Raina Schwanz
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Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
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Chain of Custody etc.

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Sample Summary

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/24 16:02
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05-2'	E411153-01A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS06-2'	E411153-02A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS07-2'	E411153-03A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS08-1'	E411153-04A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS09-1.5'	E411153-05A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS10-1'	E411153-06A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS11-1'	E411153-07A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS12-1.5'	E411153-08A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS13-0'	E411153-09A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS14-1'	E411153-10A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS15-1'	E411153-11A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
FS16-1'	E411153-12A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW02- 0-2'	E411153-13A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.
SW03- 0-4'	E411153-14A	Soil	11/13/24	11/15/24	Glass Jar, 2 oz.



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

FS05-2'

E411153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	11/15/24	11/19/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	11/15/24	11/19/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	11/15/24	11/19/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	11/15/24	11/19/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
<i>Surrogate: n-Nonane</i>		91.7 %	50-200	11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	1320	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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FS06-2'

E411153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	87.3 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	1050	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

FS07-2'

E411153-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	88.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	1340	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

FS08-1'

E411153-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	96.3 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	272	20.0	1	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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FS09-1.5'

E411153-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	95.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	295	100	5	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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FS10-1'
E411153-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	93.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	431	40.0	2	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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FS11-1'
E411153-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		104 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		104 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane		93.2 %	50-200	11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	322	40.0	2	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

FS12-1.5'

E411153-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	95.8 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	95.8 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	94.5 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	531	20.0	1	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

FS13-0'

E411153-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	96.0 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	1990	40.0	2	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

FS14-1'

E411153-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	103 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	91.7 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	1780	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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FS15-1'

E411153-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/15/24	11/19/24	
Surrogate: Toluene-d8		103 %	70-130	11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane		88.7 %	50-200	11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	4770	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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FS16-1'
E411153-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	89.2 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	2510	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co.
3122 National Parks Hwy.
Carlsbad NM, 88220

Project Name: Black River SWD1
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/20/2024 4:02:32PM

SW02- 0-2'

E411153-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	102 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	96.5 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	430	200	10	11/18/24	11/19/24	



Sample Data

San Mateo Black River Water Management Co. 3122 National Parks Hwy. Carlsbad NM, 88220	Project Name: Black River SWD1 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/20/2024 4:02:32PM
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SW03- 0-4'
E411153-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Benzene	ND	0.0250	1	11/15/24	11/19/24	
Ethylbenzene	ND	0.0250	1	11/15/24	11/19/24	
Toluene	ND	0.0250	1	11/15/24	11/19/24	
o-Xylene	ND	0.0250	1	11/15/24	11/19/24	
p,m-Xylene	ND	0.0500	1	11/15/24	11/19/24	
Total Xylenes	ND	0.0250	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	110 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2446151
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/15/24	11/19/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		11/15/24	11/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		11/15/24	11/19/24	
Surrogate: Toluene-d8	110 %	70-130		11/15/24	11/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2446157
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/24	11/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/24	11/17/24	
Surrogate: n-Nonane	91.9 %	50-200		11/15/24	11/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2447015
Chloride	1110	20.0	1	11/18/24	11/19/24	



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/20/2024 4:02:32PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

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 (2446151-BLK1) Prepared: 11/15/24 Analyzed: 11/19/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2446151-BS1) Prepared: 11/15/24 Analyzed: 11/19/24

Benzene	2.42	0.0250	2.50		96.8	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
o-Xylene	2.93	0.0250	2.50		117	70-130			
p,m-Xylene	5.90	0.0500	5.00		118	70-130			
Total Xylenes	8.83	0.0250	7.50		118	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

LCS Dup (2446151-BSD1) Prepared: 11/15/24 Analyzed: 11/19/24

Benzene	2.51	0.0250	2.50		100	70-130	3.49	23	
Ethylbenzene	2.76	0.0250	2.50		110	70-130	6.05	27	
Toluene	2.68	0.0250	2.50		107	70-130	6.45	24	
o-Xylene	2.83	0.0250	2.50		113	70-130	3.66	27	
p,m-Xylene	5.65	0.0500	5.00		113	70-130	4.39	27	
Total Xylenes	8.47	0.0250	7.50		113	70-130	4.15	27	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/20/2024 4:02:32PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

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 (2446151-BLK1) Prepared: 11/15/24 Analyzed: 11/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2446151-BS2) Prepared: 11/15/24 Analyzed: 11/19/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS Dup (2446151-BSD2) Prepared: 11/15/24 Analyzed: 11/19/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130	4.81	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		92.9	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/20/2024 4:02:32PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446157-BLK1) Prepared: 11/15/24 Analyzed: 11/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

LCS (2446157-BS1) Prepared: 11/15/24 Analyzed: 11/17/24

Diesel Range Organics (C10-C28)	238	25.0	250		95.2	38-132			
Surrogate: n-Nonane	49.3		50.0		98.7	50-200			

Matrix Spike (2446157-MS1) Source: E411153-10 Prepared: 11/15/24 Analyzed: 11/17/24

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	53.0		50.0		106	50-200			

Matrix Spike Dup (2446157-MSD1) Source: E411153-10 Prepared: 11/15/24 Analyzed: 11/17/24

Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132	3.05	20	
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			



QC Summary Data

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	Reported: 11/20/2024 4:02:32PM
3122 National Parks Hwy.	Project Number:	23003-0002	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447015-BLK1)					Prepared: 11/18/24 Analyzed: 11/19/24				
Chloride	ND	20.0							
LCS (2447015-BS1)					Prepared: 11/18/24 Analyzed: 11/19/24				
Chloride	256	20.0	250		102	90-110			
LCS Dup (2447015-BSD1)					Prepared: 11/18/24 Analyzed: 11/19/24				
Chloride	256	20.0	250		102	90-110	0.115	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

San Mateo Black River Water Management Co.	Project Name:	Black River SWD1	
3122 National Parks Hwy.	Project Number:	23003-0002	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/20/24 16:02

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: San Mateo				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Black River SWD # 001				Address: 3122 National Parks Hwy		E411153	23003-0002				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0942	11/13/24	S	1	FS05-2'		1						X					
0957				FS06-2'		2											
0958				FS07-2'		3											
0754				FS08-1'		4											
0921				FS09-1.5'		5											
0757				FS10-1'		6											
1118				FS11-1'		7											
1009				FS12-1.5'		8											
1121				FS13-0'		9											
1452				FS14-1'		10											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Chad Hamilton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

[illegible]

Envirotech Analytical Laboratory

Printed: 11/15/2024 8:54:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	San Mateo Black River Water Management Co.	Date Received:	11/15/24 06:30	Work Order ID:	E411153
Phone:	(575) 988-0055	Date Logged In:	11/14/24 14:32	Logged In By:	Caitlin Mars
Email:		Due Date:	11/21/24 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 E

Email Correspondence

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

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

QUESTIONS

Action 369850

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 369850
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Black River SWD
Date Release Discovered	08/02/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 94 BBL Recovered: 94 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 369850

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 369850
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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ACKNOWLEDGMENTS

Action 369850

ACKNOWLEDGMENTS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 369850
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS

Action 369850

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 369850
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/2/2024

Impacted Soil	
Saturated Soil (inches)	
	0.5
Area (sq. ft.)	
	240
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	93.5
Soil type	
	pad caliche
Spill type	
	produced water
Barrel estimate in soil	
	0.4
Barrel estimate (standing fluids/ recovered+in soil)	
	93.9



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QUESTIONS

Action 370000

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 370000
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 94 BBL Recovered: 94 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 370000

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 370000
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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: 08/02/2024
--	--

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QUESTIONS, Page 3

Action 370000

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 370000
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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	No
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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CONDITIONS

Action 370000

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 370000
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	8/5/2024

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QUESTIONS

Action 397947

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397947
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,120
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590

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CONDITIONS

Action 397947

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397947
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

District I

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QUESTIONS

Action 397949

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397949
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	3,120
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590

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CONDITIONS

Action 397949

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397949
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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QUESTIONS

Action 397954

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397954
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	3,120
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590

District I
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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
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Oil Conservation Division
1220 S. St Francis Dr.
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CONDITIONS

Action 397954

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397954
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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QUESTIONS

Action 397962

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397962
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	3,120
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/07/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590

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CONDITIONS

Action 397962

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397962
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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QUESTIONS

Action 397969

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397969
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Black River SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,120
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Chad Hamilton @ (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.26605, -104.12590

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CONDITIONS

Action 397969

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 397969
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	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.	10/31/2024

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QUESTIONS

Action 402701

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 402701
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	BLACK RIVER SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Liner Inspection Event Information

Please answer all the questions in this group.

What is the liner inspection surface area in square feet	72,019
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/15/2024
Time liner inspection will commence	07:00 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.26578,-104.12499

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CONDITIONS

Action 402701

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 402701
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	11/12/2024

From: [Rodgers, Scott, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: jason.touchet@matadorresources.com; [Cole Burton](#); [Chad Hamilton](#)
Subject: RE: [EXTERNAL] 48-Hour Confirmation Sampling Variance Request - Black River SWD 001 - nAPP2421542116
Date: Monday, December 2, 2024 3:53:58 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

Good Afternoon,

Your variance request for the two-business day sampling notification is approved.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, notifications for sampling or drilling event(s), and request for time extension(s) or variance(s).

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, December 2, 2024 2:13 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] 48-Hour Confirmation Sampling Variance Request - Black River SWD 001 - nAPP2421542116

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, December 2, 2024 1:57 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] 48-Hour Confirmation Sampling Variance Request - Black River SWD 001 - nAPP2421542116

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

Good Afternoon,

San Mateo Black River Water Management Company (San Mateo) would like to request a variance on the 48-Hour confirmation sampling notice for confirmation soil samples collected at the Black River SWD #001 (Site) (Incident Number nAPP2421542116). San Mateo submitted 48-hour confirmation sampling notices for the week of November 04, 2024, through November 07, 2024, however remediation of the subject matter release was not completed until November 13, 2024. Unfortunately, San Mateo's environmental representative experienced a death in the family and was unable to submit additional notices until his return to work on 11/15/2024. Ensolum personnel noticed that missing confirmation sampling notices today, December 02, 2024. San Mateo respectfully requests permission to use confirmation floor and confirmation sidewall soil samples collected on November 12, 2024, and November 13, 2024, in the final report submitted to NMOCD. Please feel free to reach out with any additional questions.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

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Oil Conservation Division

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Santa Fe, NM 87505

QUESTIONS

Action 407986

QUESTIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421542116
Incident Name	NAPP2421542116 BLACK RIVER SWD 1 @ 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	BLACK RIVER SWD 1
Date Release Discovered	08/02/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 94 BBL Recovered: 94 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 407986

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	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: 12/03/2024
--	--

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Phone: (505) 476-3441

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QUESTIONS, Page 3

Action 407986

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	41500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	249
GRO+DRO (EPA SW-846 Method 8015M)	156
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	11/05/2024
On what date will (or did) the final sampling or liner inspection occur	11/15/2024
On what date will (or was) the remediation complete(d)	11/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	1323
What is the estimated volume (in cubic yards) that will be reclaimed	82
What is the estimated surface area (in square feet) that will be remediated	1821
What is the estimated volume (in cubic yards) that will be remediated	58

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 407986

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	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	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<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: 12/03/2024
<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 407986

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
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	Deferral areas are directly beneath active pipeline risers and supports.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1941
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	219
<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	30-015-43807 BLACK RIVER SWD #001
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: 12/03/2024

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 407986

QUESTIONS (continued)

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	397969
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	3120

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 407986

CONDITIONS

Operator: San Mateo Black River Water Management Compan 5400 LBJ Freeway Dallas, TX 75240	OGRID: 371287
	Action Number: 407986
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of FS03, FS05-07, FS13-16 and SW03 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	1/3/2025