

August 8, 2024

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

Re: Deferral Request Addendum

Ace Stern Vegas TB

Incident Number nAPP2405038607

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request Addendum* (DRA) to document excavation and soil sampling activities performed at the Ace Stern Vegas TB (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of produced water onto the well pad. Based on field observation following excavation, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *DRA*, describing Site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2405038607 until the Site is reconstructed and/or the booster pad is abandoned.

On July 1, 20204, Ensolum submitted a *Deferral Request* (DR) to the New Mexico Oil Conservation Division (NMOCD); however, the DR was denied by the NMOCD for the following reasons:

• Deferral denied. Figures 2 and 3 show the Area of Requested Deferral in Figure 4 as Excavated (it is marked in blue). Did some remediation occur in this area? If so, address in report or update figures. The Area of Requested Deferral requires more delineation. One horizontal delineation sample should be collected north and one to the south of deferral area to ensure the deferral area is clearly demarcated. If the liner was repaired, this should be addressed in resubmittal along with photographic documentation. Resubmit report to the OCD by 9/10/24.

This DRA addresses NMOCD's concerns regarding additional delineation sampling around the area of requested deferral and visual evidence of the liner repair has been included in the photographic log (See Appendix A).

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 21, Township 22 South, Range 28 East, in Eddy County, New Mexico (32.375835°, -104.100481°) and is associated with oil and gas exploration and production operations on Private Land.

On February 19, 2024, an actuated valve on the Lease Automatic Custody Transfer (LACT) unit skid inside containment malfunctioned and as a result, approximately 9 barrels (bbls) of crude oil was released onto the caliche pad; 8 bbls of crude oil was recovered via hydrovac. Matador reported the

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

release to NMOCD via email and submitted a Release Notification Form C-141 (Form C-141) via web portal on February 19, 2024, and subsequently the release was assigned Incident NumbernAPP2405038607.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04702 POD2, with a depth to water measurement of 46 feet below ground surface (bgs). The well is located 9,096 feet northwest of the Site. All wells used to establish depth to groundwater are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry intermittent stream, located approximately 50 feet southeast of the release extent. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not within 1,000 feet of a freshwater well or spring. The Site is located approximately 272 feet southeast of a 100-year floodplain. The Site is not underlain by unstable geology (medium potential karst designation area) or overlying a subsurface mine. 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

SITE ASSESSMENT ACTIVITIES

On February 19, 2024, Ensolum personnel were onsite to map the release extent and on March 11,2024, to begin delineation sampling of the release area and to conduct a liner inspection. During the inspection, the liner was found to have two holes; however, these were located at the center of the containment and in the east wall and were not within the contaminated area.

Delineation soil samples SS01 through SS06 were collected at the ground surface (0 feet bgs) to verify the lateral extent of the release area. Two borehole samples, BH01 and BH02, were advanced via hand auger to depths of 2 feet and 4 feet bgs, respectively, to verify the vertical extent of the release area. Soil samples from borehole BH02 were field screened for at every foot TPH utilizing a PetroFLAG® Soil Analyzer System. All boreholes and delineation soil sample locations are depicted on Figure 2. A photographic log including delineation and excavation activities is included in Appendix A. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.



Ensolum personnel returned to the Site on July 30, 2024, to collect lateral delineation soil samples on the north and south sides of the area of requested deferral; lateral delineation soil sample SS07 was collected on the north side at ground surface and lateral delineation soil sample SS08 was collected on the south side at ground surface. Ensolum personnel collected photographic evidence of the liner repair work completed by Dupree Energy, LLC (see Appendix A).

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.

EXCAVATION SOIL SAMPLING ACTIVITIES

On May 16, 2024, Ensolum personnel were on the Site to complete excavation of the accessible release area. Excavation of the release area was completed with a backhoe, hydrovac, and hand tools to depths ranging from the ground surface to 1.5 feet bgs. Following removal of impacted soil, Ensolum personnel collected four, 5-point composite soil samples representing up to 200 square feet from the excavation floor and one from the sidewall. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. One sidewall sample (SW01) was collected from the edge of the release extent at depths ranging from the ground surface to 1.5 feet bgs. Four floor samples (FS01 through FS04) were collected at depths of 1.5 feet bgs. Borehole BH02 was advanced, within the area of requested deferral, to a depth of 3 feet bgs to confirm the vertical extent of the release in the inaccessible area. Excavation confirmation floor, sidewall, and borehole soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

About 30 cubic yards of impacted soil were removed during excavation activities to the maximum extent practicable (MEP). The final excavation extent measured approximately 740 square feet with a total depth of 1.5 fee bgs. The impacted soil was removed during the excavation activities and transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing. Following deferral approval, Matador intends to complete remediation of the on-pad area in accordance with the site Closure Criteria and according to the reclamation requirement following major Site reconstruction or reclamation of the production pad.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS08), collected at ground surface, were all in compliance with the strictest Closure Criteria for the Site per NMOCD Table I. laboratory analytical results from borehole BH01 indicated that COC's were in compliance with the Site Closure Criteria at ground surface to a terminal depth of 2 feet bgs. Laboratory analytical results for delineation soil samples collected from borehole (BH02) indicated that concentrations of TPH exceeded the Site Closure Criteria at ground surface, 1-foot bgs and 2 feet bgs; TPH concentration were below the Site Closure Criteria at a terminal depth of 3 feet bgs.



Laboratory analytical results for excavation floor confirmation samples (FS01 through FS04) and confirmation sidewall soil sample (SW01) indicated that all COC's were in compliance with the Site Closure Criteria at a depth of 1.5 feet bgs.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, process piping, the supports beneath them, preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 619 square feet, and assuming a depth of up to 3 feet bgs under the electrical panels and pumps based on the analytical results from surrounding confirmation samples and 3 feet bgs based on delineation borehole BH02, a total of approximately 69 cubic yards of impacted soil remains in place. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples (SS01 through SS08) at ground surface and vertically delineated by borehole sample BH01 at 2 feet bgs and borehole sample BH02 at 3 feet bgs. In order to address the elevated TPH concentrations in sample location (BH02) at ground surface, Matador proposed treating the soil with Micro-Blaze® to assist with the natural attenuation of hydrocarbons through biodegradation. Matador will also install a layer of pea-sized gravel to act as a barrier over the Micro-Blaze® treatment area to prevent workers and/or wildlife from coming into contact with the treated area. Matador has repaired the lined secondary containment and there are no visible breaches in the containment liner as of July 30, 2024.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 46 feet bgs, and all accessible impacted soil was removed to the MEP during excavation activities. Any gross impacts were removed via scraping of the ground surface and Matador proposes treating the area of requested deferral with Micro-Blaze[®]. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2405038607 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, PG (licensed in WY & TX) Senior Managing Geologist

cc: Clinton Talley, Matador Production Company Jason Touchet, Matador Production Company



Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Figure 4 Area of Requested Deferral

Table 1 Delineation Soil Sample Analytical Results
Table 2 Excavation Soil Sample Analytical Results

Appendix A Photographic Log Appendix B Well Log and Record

Appendix C Lithologic Soil Sampling Logs

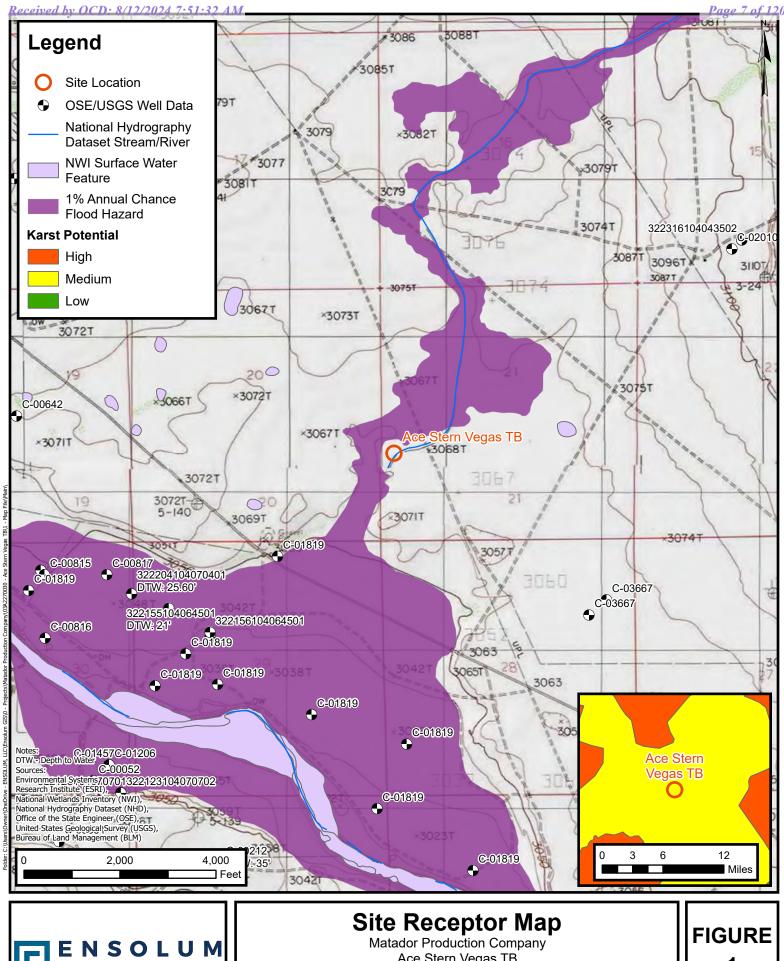
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Correspondence





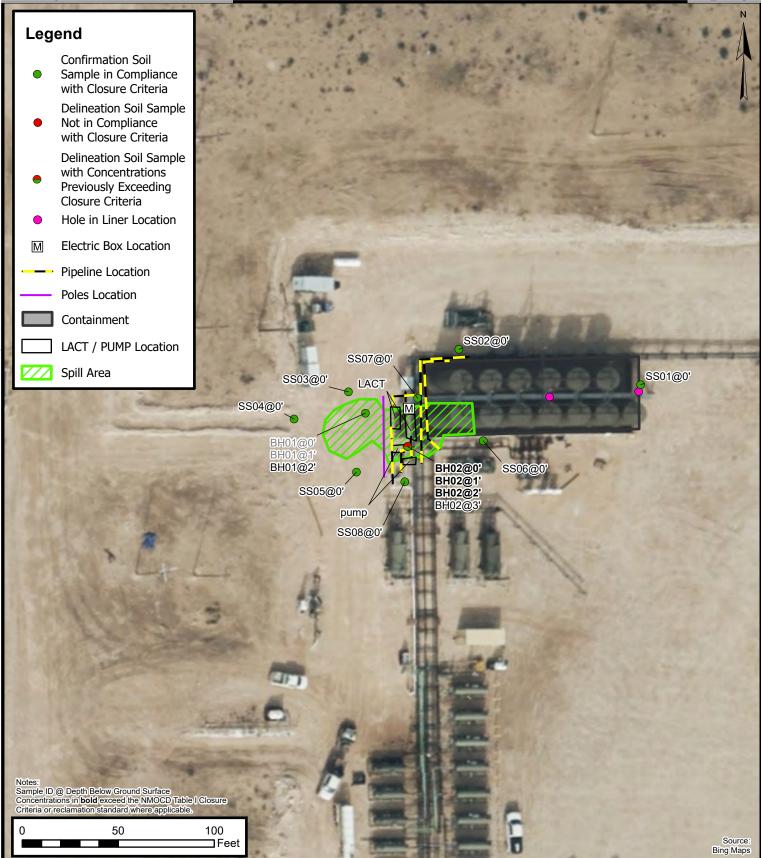
FIGURES





Ace Stern Vegas TB Incident Number: nAPP2405038607 Unit E, Section 21 T 22S, R 28E Eddy County, New Mexico

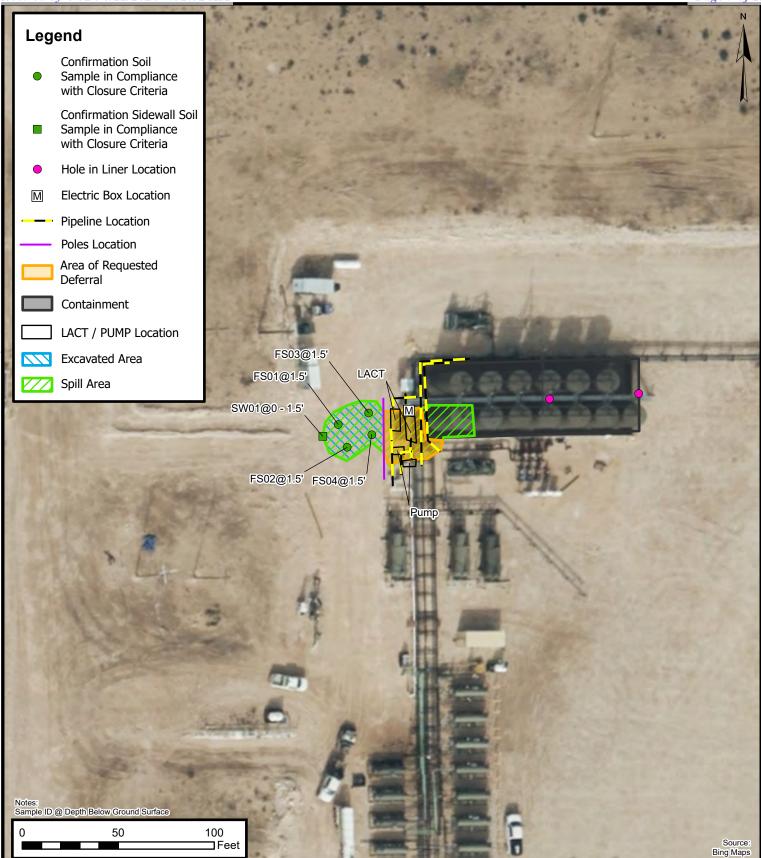
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Delineation Soil Sample Locations

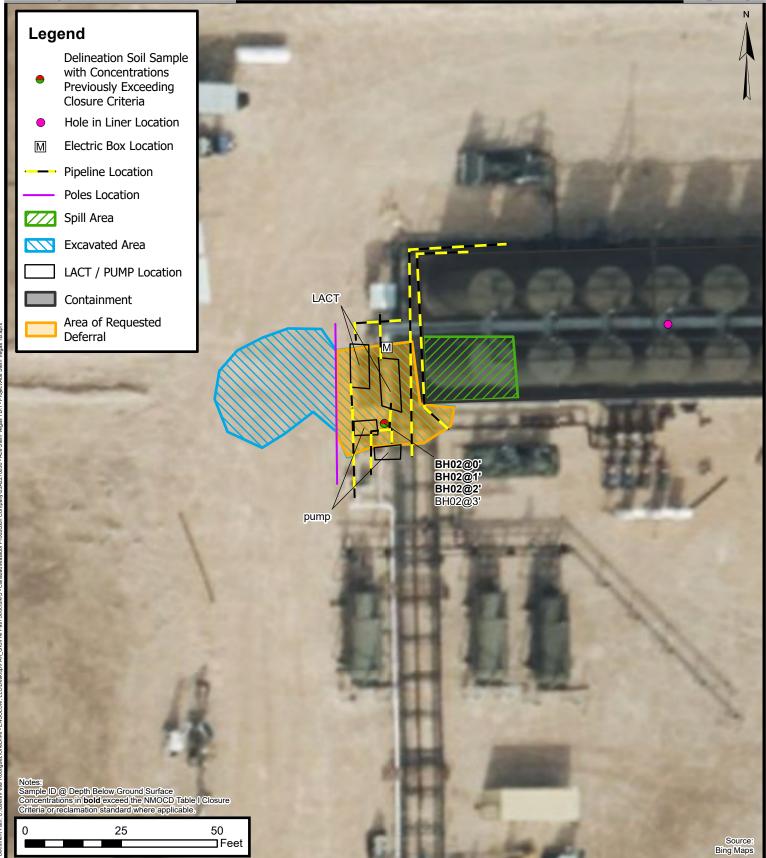
Matador Production Company Ace Stern Vegas TB Incident Number: nAPP2405038607 Unit E, Section 21, T 22S, R 28E Eddy County,New Mexico FIGURE 2





Confirmation Soil Sample Locations

Matador Production Company Ace Stern Vegas TB Incident Number: nAPP2405038607 Unit E, Section 21, T 22S, R 28E Eddy County,New Mexico FIGURE 3





Area of Requested Deferral

Matador Production Company Ace Stern Vegas TB Incident Number: nAPP2405038607 Unit E, Section 21, T 22S, R 28E Eddy County,New Mexico FIGURE

4



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Ace Stern Vegas TB
Matador Production Company
Eddy County, New Mexico

					, country, room in					
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
				Delin	neation Soil San	nples				
SS01	3/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
SS02	3/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
SS03	3/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	160
SS04	3/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	118
SS05	3/11/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
SS06	3/11/2024	0	<0.0250	<0.0500	<20.0	26.3	<50.0	26.3	26.3	504
SS07	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	224
SS08	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	112
BH01	3/11/2024	0	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	328
BH01	3/11/2024	1	< 0.0250	< 0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	51.4
BH01	3/11/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	244
BH02	4/11/2024	0	0.55	69.81	311	24,800	5,770	25,111	30,881	296
BH02	4/11/2024	1	<0.0250	11.65	54.0	1,160	341	1,214	1,555	70.9
BH02	4/11/2024	2	<0.0250	<0.0500	<20.0	188	57	188	245	502
BH02	5/15/2024	3	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	472

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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

GRO: Gasoline Range Organics



TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS

Ace Stern Vegas TB
Matador Production Company
Eddy County, New Mexico

				Eddy	County, New Me	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						
				Confirma	ation Floor Soil	Samples										
FS01	5/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	364						
FS02	5/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122						
FS03	5/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	377						
FS04	5/16/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	253						
				Confirmati	on Sidewall So	il Samples										
SW01	5/16/2024	0-1.5	<0.0250	<0.0500	<20.0	26.3	<50.0	<25.0	<50.0	366						

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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



APPENDIX A

Photographic Log



Matador Production Company
Ace Stern Vegas TB
Incident Number: nAPP2405038607





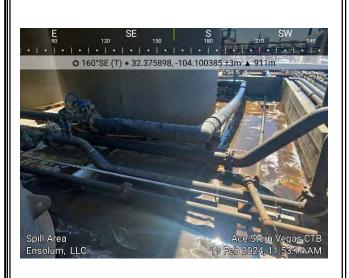
Photograph 1 Date: 2/19/2024 Photograph 2 Date: 2/19/2024

Description: Lease Signage

View: South

Description: Release Area

View: East





Photograph 3 Date: 2/19/2024 Photograph 4 Date: 2/19/2024

Description: Release Area Description: Release Area

View: South View: West



Matador Production Company Ace Stern Vegas TB Incident Number: nAPP2405038607





Photograph 5 Date: 03/11/2024 Description: Liner Inspection and Delineation Sampling

View: Southwest

Date: 03/11/2024 Photograph 6 Description: Liner Inspection and Delineation Sampling

View: Southwest





Date: 03/11/2024 Photograph 7 Description: Liner Inspection and Delineation Sampling

Date: 03/11/2024 Photograph 8 Description: Liner Inspection and Delineation Sampling

View: East

View: Southeast



Matador Production Company Ace Stern Vegas TB Incident Number: nAPP2405038607





Photograph 9 Date: 03/11/2024
Description: Liner Inspection and Delineation Sampling
View: Northeast

Photograph 10 Date: 03/11/2024 Description: Liner Inspection and Delineation Sampling

View: Northwest





Photograph 11 Date: 03/11/2024
Description: Liner Inspection and Delineation Sampling
View: Southwest

Photograph 12 Date: 03/11/2024

Description: Liner Inspection and Delineation Sampling

View: Southeast



Matador Production Company Ace Stern Vegas TB Incident Number: nAPP2405038607





Photograph 13 Date: 05/15/2024

Description: Hydrovac pipelines

View: West

Photograph 14

Description: Delineation Sampling (BH02)

Date: 05/15/2024

Date: 05/16/2024

View: North





Photograph 15

Description: Excavation View: Southeast

Date: 05/16/2024

Photograph 16

Description: Excavation

View: Southwest

ENSOLUM

Photographic Log

Matador Production Company
Ace Stern Vegas TB
Incident Number: nAPP2405038607





Photograph 17 Date: 07/30/2024 Photograph 18 Date: 07/30/2024

Description: Site Signage Description: Liner Repair (Hole 1)

View: Southwest View: East





Photograph 19 Date: 07/30/2024 Photograph 20 Date: 07/30/2024

Description: Liner Repair (Hole 1)

Description: Liner Repair (Hole 1)

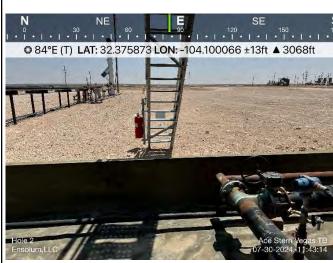
View: North View: East

ENSOLUM

Photographic Log

Matador Production Company
Ace Stern Vegas TB
Incident Number: nAPP2405038607





Photograph 21 Date: 07/30/2024

Description: Containment Wall Repair (Hole 2)

View: Southeast

Photograph 22 Date: 07/30/2024 Description: Containment Wall Repair (Hole 2)

View: Southeast





Photograph 23 Date: 07/30/2024

Description: Lateral Delineation Sample (SS07)

View: South

Photograph 24 Date: 07/30/2024

Description: Lateral Delineation Sample (SS08)

View: Northeast



APPENDIX B

Well Log and Record



ION	OSE POD NO. (W C-04702 POD	1			WELL TAG ID NO			C-04702			
OCAT	WELL OWNER N Chevron North		rica Exploration					931-436-03			
VELL	WELL OWNER M 1004 N Big Sp		ADDRESS treet Suite 121					CITY Midland		STATE TX 7970	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION	1		EGREES 32	MINUTES 23	SECONDS 27.20	N	* ACCURACY	REQUIRED: ONE TENT	TH OF A SECOND	
VERAI	(FROM GPS)		TTUDE	104	07	29.43	W	* DATUM REG	QUIRED: WGS 84		
1. GE	Old Indian Dr		G WELL LOCATION TO it #001	STREET ADDRES	SS AND COMMO	N LANDMAR	KS – PL	SS (SECTION, TO	WNSHЛР, RANGE) WH	ERE AVAILABLE	
	LICENSE NO.		NAME OF LICENSED		, Fa T T O				NAME OF WELL DRI		
	WD-145	5		Jo	ohn W. White					rilling Company,	
	DRILLING STAR 02/12/202		DRILLING ENDED 2/16/2023	DEPTH OF COM	PLETED WELL (50.0	FT) Be	ORE HO	LE DEPTH (FT)	DEPTH WATER FIRS	30.5	FT)
7	COMPLETED WI	ELL IS:	ARTESIAN *add		✓ SHALL	OW (UNCONF	NED)		WATER LEVEL PLETED WELL 46	0	TIC MEASUREI 16/2023
TIO	DRILLING FLUII):	AIR	MUD	ADDITI	VES - SPECIF	<i>t</i> :				
RMA	DRILLING METH	IOD: 🗸	ROTARY HAM	MER CABLE	TOOL OT	HER - SPECIF	<i>(</i> :		CHECK INSTAL	HERE IF PITLESS A LED	DAPTER IS
NFO	DEPTH (fee	t bgl)	BORE HOLE	(include each casing string, and T		ASING	CASING	CASING WAL	L SLOT		
VSING	FROM	ТО	DIAM (inches)				CONNECTION TYPE (add coupling diameter)		INSIDE DIAM. (inches)	THICKNESS (inches)	
& C	0.0	30.0	6.0	Sch. 40 Riser				hreads	2.0	1/4"	
2. DRILLING & CASING INFORMATION	30.0	50.0	6.0	Scl	h. 40 Screen		Т	hreads	2.0	1/4"	.010
2									QSE OT M	¶ & X)23 ≠w;	28
	DEPTH (fee	t bgl)	BORE HOLE	LIST ANNUL	AR SEAL MAT	ERIAL AND O		L PACK SIZE-	AMOUNT		HOD OF
IAL	FROM	то	DIAM. (inches)	*(if using Centr				e spacing below)	(cubic feet)	PLAC	CEMENT
LER	26.0	28.0	6.0		Bente	onite Chips			0.5 Bag		nd Mix
3. ANNULAR MATERIAL	28.0	50.0	6.0		20	/40 Sand			8 Bags	На	nd Mix
NULA											
3. AN											
									4		
	OSE INTERNA	LUSE						WR-2	WELL RECORD	& LOG (Version C	9/22/2022)

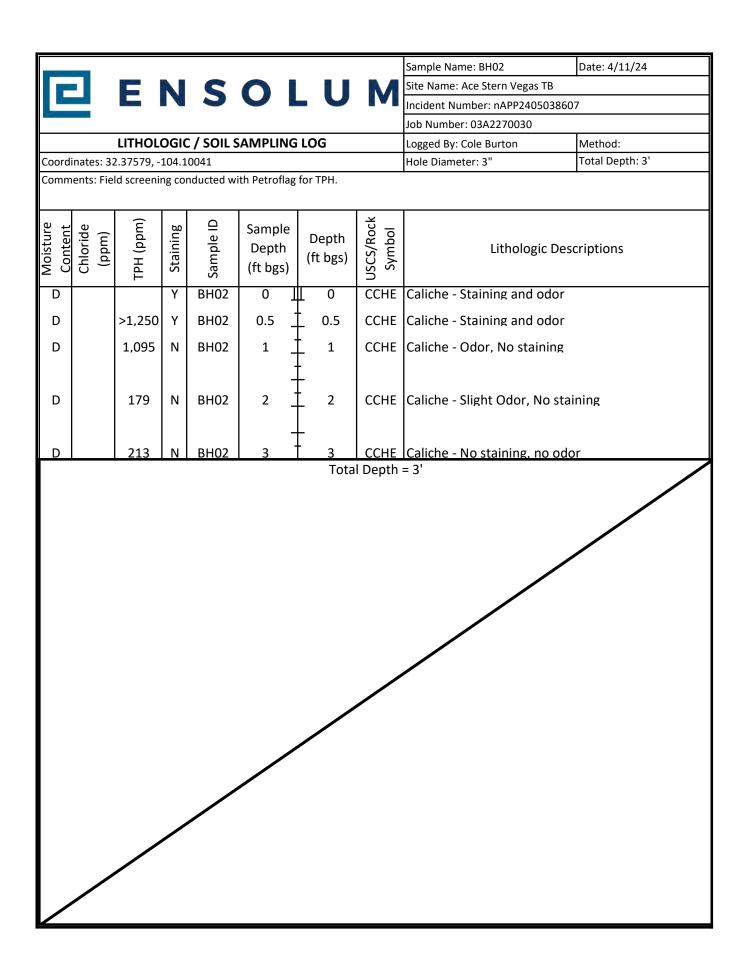
	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED		WA	TED	ESTIMATEI
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE 2 (attach supplemental sheets to fully describe all units)	ZONES	BEA	ATER RING? S / NO)	YIELD FOR WATER- BEARING ZONES (gpm
	0.0	1.0	1.0	Brown clayey sand/sandy Clay		Y	✓ N	
	1.0	2.0	1.0	Brown limestone		Y	√ N	
	2.0	9.0	7.0	Caliche		Y	√ N	
1	9.0	17.0	6.0	Brown sand w/gravel		Y	√ N	
	17.0	18.0	1.0	Gray limestone gravel		Y	√ N	
,	18.0	20.0	2.0	Brown sand w/gravel		Y	✓ N	
WEL	20.0	23.0	3.0	Brown silty clayey sand		Y	√ N	
5	23.0	33.0	10.0	Red brown silty shale		✓ Y	N	
200	33.0	33.5	0.5	Red brown silty clayey sand		✓ Y	N	
1	33.5	40.0	6.5	Red brown silty shale		✓ Y	N	
4. HTDROGEOLOGIC LOG OF WELL	40.0	44.0	4.0	Red brown sand/sandstone		✓ Y	N	
rEC	44.0	45.0	1.0	Gray gravel		✓ Y	N	
	45.0	46.0	1.0	Red brown sand		✓ Y	N	
	46.0	49.0	3.0	Brown sand/clayey sand		✓ Y	N	
+	49.0	50.0	1.0	Red brown shale		✓ Y	N	
1						Y	N	
						Y	N	
					- 11	Y	N	
			1			Y	N	
						Y	N N	
	METHOD U			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:		Y	N N MATED	
	PUM WELL TES	P A	RESULTS - ATTA	BAILER OTHER – SPECIFY: ACH A COPY OF DATA COLLECTED DURING WELL TESTING IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN	WE G, INCLUD	Y Y Y TAL ESTIF	N N MATED D (gpm):	
MAIGHT THE TAX THE TAX TO THE TAX	□ PUM WELL TES MISCELLA	TEST STAR NEOUS IND ME(S) OF D	RESULTS - ATT/T TIME, END TIME	BAILER OTHER – SPECIFY: ACH A COPY OF DATA COLLECTED DURING WELL TESTING IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN	G, INCLUD.	Y Y Y TAL ESTII LL YIELI ING DISC	N N MATED D (gpm): CHARGE NG PERIO	DD.
o. SIGNALUKE S. LEST; KIG SUFEKVISION	PUM WELL TES MISCELLA PRINT NAM William B. THE UNDE	TEST STAR NEOUS INI ME(S) OF D Atkins RSIGNED I RECORD O ERMIT HO	RESULTS - ATTAT TIME, END TIME FORMATION: Ch	BAILER OTHER – SPECIFY: ACH A COPY OF DATA COLLECTED DURING WELL TESTING IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN HORIDORIAN OF WELL ESTHAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS W DAYS AFTER COMPLETION OF WELL DRILLING: John W. White	G, INCLUD. N OVER THE	Y Y Y AL ESTIFICITION CONTROL OF THE FORE	N N MATED D (gpm): CHARGE NG PERIO	AAN LICENSE
SIMPLIANE	PUM WELL TES MISCELLA PRINT NAM William B. THE UNDE	TEST STAR NEOUS INI ME(S) OF D Atkins RSIGNED I RECORD O ERMIT HO	RESULTS - ATT/ T TIME, END TIME FORMATION: Ch RILL RIG SUPER HEREBY CERTIF THE ABOVE D	BAILER OTHER – SPECIFY: ACH A COPY OF DATA COLLECTED DURING WELL TESTING IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN HORIDORIAN OF WELL ESTHAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS W DAYS AFTER COMPLETION OF WELL DRILLING: John W. White	G, INCLUD. N OVER THE	Y Y Y AL ESTIFICITION CONTROL OF THE FORE	N N MATED D (gpm): CHARGE NG PERIO	AAN LICENSE
o. Stenarione	PUM WELL TES MISCELLA PRINT NAM William B. THE UNDE	TEST STAR NEOUS INI ME(S) OF D Atkins RSIGNED I RECORD O ERMIT HO SIGNAT	RESULTS - ATTAT TIME, END TIME FORMATION: Ch	BAILER OTHER - SPECIFY: ACH A COPY OF DATA COLLECTED DURING WELL TESTING IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN Iorides present VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS W DAYS AFTER COMPLETION OF WELL DRILLING: John W. White	G, INCLUD. N OVER THE	Y Y Y Y TAL ESTU LL YIELI ING DISC IE TESTU OCTION C	N N MATED D (gpm): CHARGE NG PERIO OTHER TO EGOING I THE ST 8/2023 DATE	AAN LICENSE

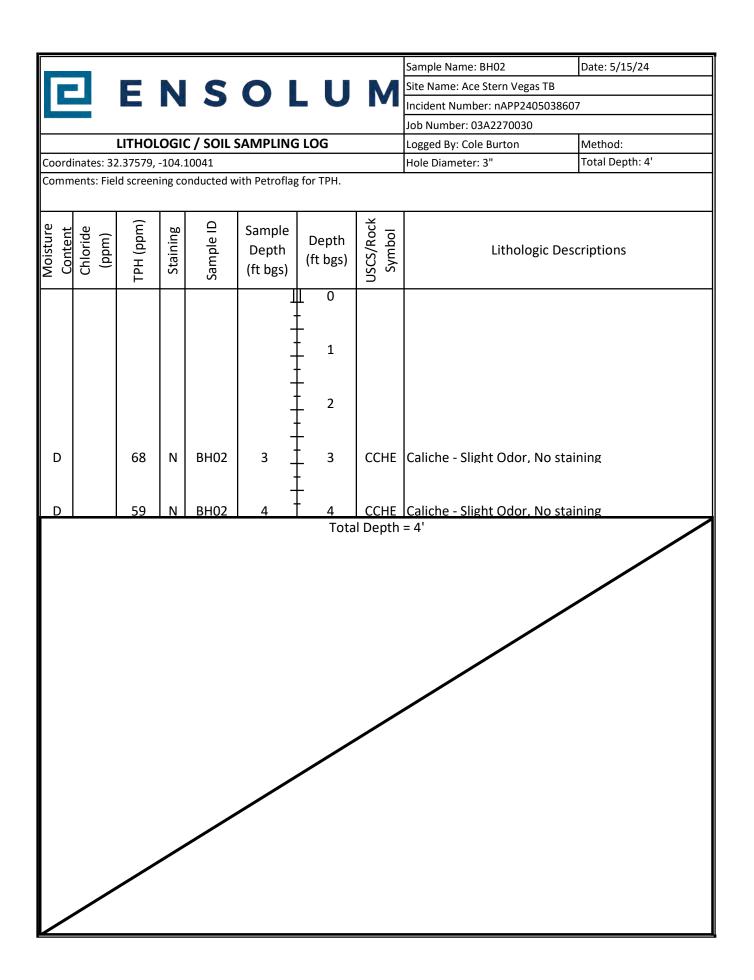


APPENDIX C

Lithologic Soil Sampling Logs

							Sample Name: PU01	Dato: 2/11/24		
	-						Sample Name: BH01 Site Name: Ace Stern Vegas 1	Date: 3/11/24		
		N	5	O	LU	M	Incident Number: nAPP24050			
		_					Job Number: 03A2270030			
	LITHO	OGIC	. / SOIL S	SAMPLING	LOG		Logged By: Cole Burton	Method:		
Coordinates: 3				,, Liive			Hole Diameter: 3"	Total Depth: 2'		
Comments: Sa				ened due to	odor.			1		
Content Chloride (ppm)	ТРН (ррт)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions		
D		N	BH01	0]	0	CCHE	Caliche - No staining, st	trong odor		
D		N	BH01	1 _	1	ССНЕ	Caliche - No staining , s	trong odor		
D		N	BH01	2 _	2	ССНЕ	Caliche - No staining , s	trong odor		
					Tota	l Depth				



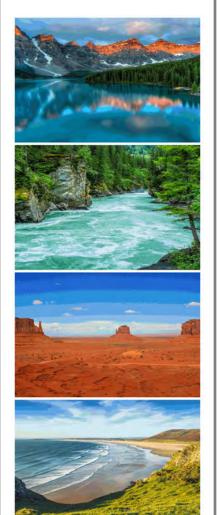




APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ace Stern Vegas CTB

Work Order: E403118

Job Number: 23003-C-0001

Received: 3/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/19/24

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

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

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

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

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

Date Reported: 3/19/24

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

Project Name: Ace Stern Vegas CTB

Workorder: E403118

Date Received: 3/13/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2024 5:00:00AM, under the Project Name: Ace Stern Vegas CTB.

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

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

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

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

Respectfully,

Walter Hinchman

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Cen: //3 20/ 1/02

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Sample Summary

Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/19/24 13:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E403118-01A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SS02 -0'	E403118-02A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SS03 -0'	E403118-03A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SS04 -0'	E403118-04A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SS05 -0'	E403118-05A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
BH01 -0'	E403118-06A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
BH01 -1'	E403118-07A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
BH01 -2'	E403118-08A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.

Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

SS01 -0' E403118-01

		E403118-01				
Analyta	Result	Reporting Limit	Dilution	Duomonod	Amalyzad	Notes
Analyte	Resuit	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
-Xylene	ND	0.0250	1	03/13/24	03/15/24	
,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		83.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2412009
Chloride	379	40.0	2	03/18/24	03/18/24	

Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

SS02 -0'

		E403118-02				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
o-Xylene	ND	0.0250	1	03/13/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		86.7 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2412009
Chloride	140	20.0	1	03/18/24	03/18/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

SS03 -0'

		E403118-03				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
o-Xylene	ND	0.0250	1	03/13/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411130	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		76.4 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2412009
Chloride	160	20.0	1	03/18/24	03/18/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

SS04 -0'

		E403118-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
o-Xylene	ND	0.0250	1	03/13/24	03/15/24	
o,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411130	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		85.3 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2412009
Chloride	118	20.0	1	03/18/24	03/18/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

SS05 -0'

		E403118-05				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
o-Xylene	ND	0.0250	1	03/13/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: EG		Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		85.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2412009
Chloride	246	20.0	1	03/18/24	03/18/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

BH01 -0' E403118-06

		E403116-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
,				1	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
o-Xylene	ND	0.0250	1	03/13/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		84.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2412009
Chloride	328	20.0	1	03/18/24	03/19/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

BH01 -1' E403118-07

		L-105110 07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
p-Xylene	ND	0.0250	1	03/13/24	03/15/24	
o,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: EG		Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		90.8 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2412009
Chloride	51.4	20.0	1	03/18/24	03/19/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

BH01 -2'

		E403118-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2411072
Benzene	ND	0.0250	1	03/13/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/15/24	
Toluene	ND	0.0250	1	03/13/24	03/15/24	
o-Xylene	ND	0.0250	1	03/13/24	03/15/24	
o,m-Xylene	ND	0.0500	1	03/13/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/15/24	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2411072
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	03/13/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		83.7 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2412009
Chloride	244	20.0	1	03/18/24	03/19/24	



o-Xylene

p,m-Xylene

Total Xylenes

QC Summary Data

Ace Stern Vegas CTB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-C-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 3/19/2024 1:18:55PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2411072-BLK1) Prepared: 03/13/24 Analyzed: 03/14/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.43 8.00 92.8 70-130 LCS (2411072-BS1) Prepared: 03/13/24 Analyzed: 03/14/24 4.96 5.00 99.2 70-130 Benzene 0.0250 Ethylbenzene 4.96 0.0250 5.00 99.2 70-130 70-130 4.94 0.0250 5.00 98.8 Toluene 98.0 o-Xylene 4.90 0.0250 5.00 70-130 10.0 10.0 70-130 0.0500 p.m-Xvlene 99.3 70-130 14.9 0.0250 15.0 Total Xylenes 8.00 94.7 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.57 Matrix Spike (2411072-MS1) Source: E403116-24 Prepared: 03/13/24 Analyzed: 03/14/24 Benzene 4.86 0.0250 5.00 ND 97.2 54-133 ND 97.3 61-133 Ethylbenzene 4.86 0.0250 5.00 Toluene 4.85 0.0250 5.00 ND 97.0 61-130

Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130		
Matrix Spike Dup (2411072-MSD1)				Source:	E403116-2	24	Prepared: 03	3/13/24 Analyzed: 03/14/24
Benzene	5.05	0.0250	5.00	ND	101	54-133	3.72	20
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	3.99	20
Toluene	5.05	0.0250	5.00	ND	101	61-130	4.01	20
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	4.18	20
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	4.10	20
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	4.12	20
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130		

5.00

10.0

15.0

0.0250

0.0500

0.0250

ND

ND

ND

96.0

98.1

63-131

63-131

63-131

4.80

9.81



Matador Resources, LLC.Project Name:Ace Stern Vegas CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo3/19/20241:18:55PM

Nonhalogenated Organics by EPA 8015D - GRO									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411072-BLK1)							Prepared: 0	3/13/24 Anal	yzed: 03/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			
LCS (2411072-BS2)							Prepared: 0	3/13/24 Anal	yzed: 03/14/24
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			
Matrix Spike (2411072-MS2)				Source:	E403116-2	24	Prepared: 0	3/13/24 Anal	yzed: 03/14/24
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Surrogue. 1 Chioro / Jiliorocciazene 112	7.02								
Matrix Spike Dup (2411072-MSD2)				Source:	E403116-2	24	Prepared: 03	3/13/24 Analyzed: 03/14/24	
Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130	1.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

Danas 171, 732 10		Troject Manage		iney Groveng	,,				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411130-BLK1)							Prepared: 0	3/15/24 Analy	zed: 03/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			
LCS (2411130-BS1)							Prepared: 0	3/15/24 Analy	zed: 03/16/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			
Matrix Spike (2411130-MS1)				Source:	E403118-0	02	Prepared: 0	zed: 03/16/24	
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			
Matrix Spike Dup (2411130-MSD1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Analy	zed: 03/16/24
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.11	20	
Surrogate: n-Nonane	43.2		50.0		86.4	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 1:18:55PM

Anions by EPA 300.0/9056A

	Analyst: IY								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2412009-BLK1)							Prepared: 0	3/18/24	Analyzed: 03/18/24
Chloride	ND	20.0							
LCS (2412009-BS1)							Prepared: 0	3/18/24	Analyzed: 03/18/24
Chloride	258	20.0	250		103	90-110			
LCS Dup (2412009-BSD1)							Prepared: 0	3/18/24	Analyzed: 03/18/24
Chloride	258	20.0	250		103	90-110	0.191	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

l	Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/19/24 13:18

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Client:	Matador Pro	duction (Company		Bill To				La	b Us	se On	ly					TAT		EPA P	rogram
	: Ace Stern V				Attention: Ensolum LLC			WO#			Job I				D 2	D :	3D .	Standard	CWA	SDWA
	Manager: As				Address: on file		E	403	3118	8	230	203	· C- 0	201				Х		
	s: 3122 Natio				City, State, Zip:						Analy	sis ar	nd Me	thod						RCRA
City, Sta	ate, Zip: Carl:	sbad NM,	88220		Phone: 575-988-0055			by										4		
	575-988-005			/	Email: agiovengo@ensolum.com	n		ORO						- 1					State	
	agiovengo@e	ensolum.c	com					RO/(11	0	_	0.0			Σ		×	NM CO	UT AZ	TX
Report	due by:							GRO/DRO/ORO by	807	826	6010	e 30	H			- 1		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GR 8015	втех by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн		верос		GDOC		Remarks	
12:45	3/11/2024	Soil	1		SS01 - 0'	LV:									х					
12:11	3/11/2024	Soil	1		SS02 - 0'	2									х					
12:14	3/11/2024	Soil	1		SS03 - 0'	3									х					
13:16	3/11/2024	Soil	1		SS04 - 0'	4									х					
12:18	3/11/2024	Soil	1		SS05 - 0'	5									x					
14:08	3/11/2024	Soil	1		BH01 - 0'	6									х					
14:11	3/11/2024	Soil	1		BH01 - 1'	7									х					
14:14	3/11/2024	Soil	1		BH01 - 2'	8									х					
															4	_				
Addition	al Instruction	ner Di-	CC: -!			ahaa ilkaa C		lum -			la (200	alus:							
					um.com, agiovengo@ensolum.com,				om, i	iesti								ved on ice the da	they are care	olod or
date or time	of collection is c	onsidered fr	aud and ma	y be grounds for le											g temp	above	0 but les	than 6 °C on sub		
Led		て	,		Received by: (Signature) Michille (Gyf	3-12.	24	Time	73	0	Rec	eived	d on id	e:	Lab (Y)		e Only			
ell 4		44		A-24 Time	700 Received by: (Signature)	3.12	:29	Time	700	2	T1_			_ 1	2			<u>T3</u>		
Relinguish	ed by: (Signatur	2S	Date	.12.24 2.	300 Received by: (Signature)	3-/3-	24	Time	SOL		AVG	i Ten	np °C	4						
	rix: S - Soil, Sd - So	olid, Sg - Slu				Containe					ooly/p	olasti	c, ag -	ambe	r glas	ss, v -	VOA			
Note: Sam	ples are discard	ed 30 days	after resu	ts are reported u	nless other arrangements are made. Hazard	ous samples wil	l be r	eturne	d to cl	ient	or disp	osed	of at t					eport for the	analysis of	the above
amples is	applicable only	to those sa	imples rec	eived by the labor	ratory with this COC. The liability of the labor	atory is limited	to the	amou	nt paid	d for	on the	e repo	ort.							



enviroteclistics environment of the analysis of the above

Printed: 3/13/2024 8:12:36AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 03/13/24 05:00 Work Order ID: E403118

Date Logged In: 03/12/24 17:08 Logged In By: Alexa Michaels Email: agiovngo@ensolum.com Due Date: 03/19/24 17:00 (4 day TAT) Chain of Custody (COC) Yes 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Courier 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, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. 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 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 NA 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA 24. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory No 28. Are samples required to get sent to a subcontract laboratory? 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.



envirotech Inc.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ace Stern Vegas CTB

Work Order: E403119

Job Number: 23003-C-0001

Received: 3/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/19/24

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

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

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

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

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

Date Reported: 3/19/24

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

Project Name: Ace Stern Vegas CTB

Workorder: E403119

Date Received: 3/13/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2024 5:00:00AM, under the Project Name: Ace Stern Vegas CTB.

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

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

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

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

Respectfully,

Walter Hinchman

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Sample Summary

_				
ı	Matador Resources, LLC.	Project Name: Ace Stern Vegas CTB		Reported:
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported.
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/19/24 16:11

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
SS06-0'	E403119-01A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 4:11:23PM

SS06-0' E403119-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	RAS		Batch: 2411081
Benzene	ND	0.0250	1		03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1		03/13/24	03/17/24	
Toluene	ND	0.0250	1		03/13/24	03/17/24	
o-Xylene	ND	0.0250	1		03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1		03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1		03/13/24	03/17/24	
Surrogate: Bromofluorobenzene		99.6 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8		106 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst:	RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/13/24	03/17/24	
Surrogate: Bromofluorobenzene		99.6 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8		106 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	KM		Batch: 2411130
Diesel Range Organics (C10-C28)	26.3	25.0	1		03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1		03/15/24	03/16/24	
Surrogate: n-Nonane		85.0 %	50-200		03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst:	IY		Batch: 2412009



Matador Resources, LLC.
Project Name: Ace Stern Vegas CTB

5400 LBJ Freeway, Suite 1500
Project Number: 23003-C-0001

Dallas TX, 75240
Project Manager: Ashley Giovengo 3/19/2024 4:11:23PM

Dallas 1A, /3240		Project Manage	r: As	sniey Gioveng	30			3/1	9/2024 4.11.23F1
	V	olatile Organ	ic Compo	unds by El	PA 82601	В		I	Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411081-BLK1)							Prepared: 0	3/13/24 Anal	yzed: 03/16/24
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	0.499	0200	0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
	0.489		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	/0-130			
LCS (2411081-BS1)							Prepared: 03	3/13/24 Anal	yzed: 03/16/24
Benzene	2.32	0.0250	2.50		92.6	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.9	70-130			
Toluene	2.47	0.0250	2.50		98.6	70-130			
o-Xylene	2.27	0.0250	2.50		91.0	70-130			
p,m-Xylene	4.76	0.0500	5.00		95.2	70-130			
Total Xylenes	7.04	0.0250	7.50		93.8	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2411081-MS1)				Source:	E403124-	21	Prepared: 03	3/13/24 Anal	yzed: 03/17/24
Benzene	2.40	0.0250	2.50	ND	96.2	48-131			
Ethylbenzene	2.49	0.0250	2.50	ND	99.5	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.52	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
Matrix Spike Dup (2411081-MSD1)				Source:	E403124-	21	Prepared: 03	3/13/24 Anal	yzed: 03/17/24
Benzene	2.31	0.0250	2.50	ND	92.3	48-131	4.12	23	· · · ·
Ethylbenzene	2.45	0.0250	2.50	ND	97.8	45-135	1.70	27	
Toluene	2.54	0.0250	2.50	ND	102	48-130	0.0197	24	
o-Xylene	2.41	0.0250	2.50	ND	96.5	43-135	4.34	27	
p,m-Xylene	5.00	0.0500	5.00	ND	100	43-135	1.57	27	
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135	2.48	27	
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
	0.702		0.500						



0.500

70-130

0.503

Surrogate: Toluene-d8

Ace Stern Vegas CTB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-C-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 3/19/2024 4:11:23PM

Nonhalogenated	Organics	by EPA	8015D - 0	GRO
Tommanogenatea	O' Sames	DJ LIII	OUISD	3110

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2411081-BLK1)							Prepared: 03	3/13/24 Anal	yzed: 03/16/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130				
Surrogate: Toluene-d8	0.511		0.500		102	70-130				
LCS (2411081-BS2)							Prepared: 03	3/13/24 Anal	yzed: 03/17/24	
Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	·	107	70-130	·	·		
Surrogate: Bromofluorobenzene	0.465		0.500		92.9	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130				
Surrogate: Toluene-d8	0.524		0.500		105	70-130				
Matrix Spike (2411081-MS2)				Source:	E403124-	21	Prepared: 03/13/24 Analyzed: 03/17/24			
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130				
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130				
Surrogate: Toluene-d8	0.578		0.500		116	70-130				
Matrix Spike Dup (2411081-MSD2)				Source:	E403124-	21	Prepared: 03	3/13/24 Anal	yzed: 03/17/24	
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.19	20		
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130				
Surrogate: Toluene-d8	0.509		0.500		102	70-130				



Matador Resources, LLC.Project Name:Ace Stern Vegas CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo3/19/2024 4:11:23PM

,		, ,		, .	2					
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: KM										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2411130-BLK1)							Prepared: 0	3/15/24 Ana	alyzed: 03/16/24	
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	46.2		50.0		92.4	50-200				
LCS (2411130-BS1)							Prepared: 0	3/15/24 Ana	alyzed: 03/16/24	
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132				
Surrogate: n-Nonane	47.5		50.0		95.0	50-200				
Matrix Spike (2411130-MS1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Ana	alyzed: 03/16/24	
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132				
Surrogate: n-Nonane	42.3		50.0		84.6	50-200				
Matrix Spike Dup (2411130-MSD1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Ana	alyzed: 03/16/24	
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.11	20		
Surrogate: n-Nonane	43.2		50.0		86.4	50-200				



Analyst: IY

QC Summary Data

Matador Resources, LLC.	Project Name:	Reported:	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/19/2024 4:11:23PM

Anions by EPA 300.0/9056A

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limi	
	mg kg	mg/kg	mg/kg	mg kg	70	70	70	70	ivotes
Blank (2412009-BLK1)							Prepared: 0	3/18/24	Analyzed: 03/18/24
Chloride	ND	20.0							
LCS (2412009-BS1)							Prepared: 0	3/18/24	Analyzed: 03/18/24
Chloride	258	20.0	250		103	90-110			
LCS Dup (2412009-BSD1)							Prepared: 0	3/18/24	Analyzed: 03/18/24
Chloride	258	20.0	250		103	90-110	0.191	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:	Ace Stern Vegas CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/19/24 16:11

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



1	Received by
	OCD:
	8/12/202
	4 7:51:3
	B2AA

Client: N	Matador Prod	uction C	ompany			Bill To				Lah	Us	e On	ly				TA	AT.		EPA Pi	rogran
roject:	Ace Stern Ve	gas CTB			At	tention: Ensolum LLC		Lab	WO#						1D	2D	3D	Star	ndard	CWA	SDW
	Manager: Ash		/engo		Address: on file			F	WO#	3119				C-0001				_	х		
Address:	3122 Nation	nal Parks	Hwy		Cit	ry, State, Zip:		1	100		_			nd Metho	d			- 3			RCR
City, Stat	e, Zip: Carls	oad NM,	88220			one: 575-988-0055			by												
Phone:	575-988-0055	5			En	nail: agiovengo@ensolum.co	m		ORO											State	
mail: a	giovengo@er	solum.c	om				187-1		30/0				0.0		Σ		_	N	M CO	UT AZ	TX
Report d	ue by:								IQ/C	805	826	5010	300	Ŧ			¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн	BGDOC		GDOC			Remarks	
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eclient expense. The report for the analysis of the above

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Printed: 3/13/2024 8:52:25AM

Instructions: Please take note of any NO checkmarks.

	Date Received:	03/13/24	05:00	Work Order ID:	E403119
Phone: (972) 371-5200	Date Logged In:	03/12/24	17:12	Logged In By:	Alexa Michaels
Email: agiovngo@ensolum.com	Due Date:	03/19/24	17:00 (4 day TAT)		
Chain of Custody (COC)					
I. Does the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site location mate	h the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: Courier		
I. Was the COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	<u> </u>		
. Were all samples received within holding time?	-	Yes			
Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion				Commen	ts/Resolution
Sample Turn Around Time (TAT)			- "		
5. 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?					
	- (0:202	NA			
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling 13. If no visible ice, record the temperature. Actual sample t	received w/i 15	Yes			
•	pa.u.c. <u>+ (</u>	=			
Sample Container		Nt-			
14. Are aqueous VOC samples present?		No NA			
15. Are VOC samples collected in VOA Vials?					
6. Is the head space less than 6-8 mm (pea sized or less)?		NA			
7. 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 contained	rs collected?	Yes			
Field Label			j		
20. Were field sample labels filled out with the minimum infor	mation:	V			
Sample ID? Date/Time Collected?		Yes			
Collectors name?		Yes Yes			
Sample Preservation		103			
21. Does the COC or field labels indicate the samples were pre	served?	No			
22. Are sample(s) correctly preserved?		NA			
24. Is lab filteration required and/or requested for dissolved me	tals?	No			
Multiphase Sample Matrix	o.	2.7			
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 analyz	eu?	NA			
Subcontract Laboratory					
28. Are samples required to get sent to a subcontract laboratory	?	No			
	o who?	NA	Subcontract Lab: NA		
29. Was a subcontract laboratory specified by the client and if					

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ace Stern Vegas TB

Work Order: E405246

Job Number: 23003-0002

Received: 5/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/28/24

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

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

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

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

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

Date Reported: 5/28/24

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

Project Name: Ace Stern Vegas TB

Workorder: E405246

Date Received: 5/17/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/17/2024 7:45:00AM, under the Project Name: Ace Stern Vegas TB.

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

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

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

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

Respectfully,

Walter Hinchman

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whinchman@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/28/24 12:34

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH02 - 3'	E405246-01A Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
BH02 - 4'	E405246-02A Soil	05/15/24	05/17/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2024 12:34:26PM

BH02 - 3' E405246-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	EG		Batch: 2421052
Benzene	ND	0.0250	1	1	05/21/24	05/24/24	
Ethylbenzene	ND	0.0250	1	1	05/21/24	05/24/24	
Toluene	ND	0.0250	1	1	05/21/24	05/24/24	
o-Xylene	ND	0.0250	1	l	05/21/24	05/24/24	
p,m-Xylene	ND	0.0500	1	l	05/21/24	05/24/24	
Total Xylenes	ND	0.0250	1	1	05/21/24	05/24/24	
Surrogate: Bromofluorobenzene		106 %	70-130		05/21/24	05/24/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/21/24	05/24/24	
Surrogate: Toluene-d8		102 %	70-130		05/21/24	05/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	EG		Batch: 2421052
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	05/21/24	05/24/24	
Surrogate: Bromofluorobenzene		106 %	70-130		05/21/24	05/24/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		05/21/24	05/24/24	
Surrogate: Toluene-d8		102 %	70-130		05/21/24	05/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2421075
Diesel Range Organics (C10-C28)	ND	25.0	1	1	05/22/24	05/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	05/22/24	05/24/24	
Surrogate: n-Nonane		100 %	50-200		05/22/24	05/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2421094
·	472	20.0			05/22/24	05/22/24	



Matador Resources, LLC.Project Name:Ace Stern Vegas TBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/28/2024 12:34:26PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			5/	28/2024 12:34:26PM
	Vo	Volatile Organic Compounds by EPA 8260B					Analyst: EG		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421052-BLK1)							Prepared: 0:	5/21/24 Ana	lyzed: 05/24/24
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	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
LCS (2421052-BS1)							Prepared: 0:	5/21/24 Ana	lyzed: 05/24/24
Benzene	2.19	0.0250	2.50		87.7	70-130			
Ethylbenzene	2.30	0.0250	2.50		91.8	70-130			
Toluene	2.19	0.0250	2.50		87.5	70-130			
o-Xylene	2.36	0.0250	2.50		94.2	70-130			
p,m-Xylene	4.75	0.0500	5.00		94.9	70-130			
Total Xylenes	7.10	0.0250	7.50		94.7	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			
LCS Dup (2421052-BSD1)							Prepared: 0:	5/21/24 Ana	lyzed: 05/24/24
Benzene	2.52	0.0250	2.50		101	70-130	14.1	23	
Ethylbenzene	2.62	0.0250	2.50		105	70-130	13.1	27	
Toluene	2.50	0.0250	2.50		100	70-130	13.4	24	
o-Xylene	2.72	0.0250	2.50		109	70-130	14.5	27	
p,m-Xylene	5.45	0.0500	5.00		109	70-130	13.8	27	
Total Xylenes	8.17	0.0250	7.50		109	70-130	14.0	27	

0.500

0.500

0.500

0.526

0.496

0.511

70-130

70-130

70-130

105

99.1

102



Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

Matador Resources, LLC. Ace Stern Vegas TB Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 5/28/2024 12:34:26PM

Nonhalogenated	Organics by	EPA	.8015D -	GRO

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2421052-BLK1)]	Prepared: 0:	5/21/24 Analy	yzed: 05/24/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			

LCS (2421052-BS2)					Prepar	red: 05/21/24 Analyzed: 05/24/24
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	91.1	70-130	
Surrogate: Bromofluorobenzene	0.534		0.500	107	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500	94.2	70-130	

0.500

70-130

0.508

Surrogate: Toluene-d8	0.519	0.500	104	70-130
LCS Dup (2421052-BSD2)				Prepared: 05/21/24 Analyzed: 05/24/24

Les Dup (2421032-B3D2)							7/21/24 Anaryzed. 05/24/24	
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	94.0	70-130	3.20	20	
Surrogate: Bromofluorobenzene	0.543		0.500	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500	97.3	70-130			
Surrogate: Toluene-d8	0.520		0.500	104	70-130			

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2024 12:34:26PM

Danas 1X, /3240		Project Manage	r: As	sniey Gioveng	go				3/28/2024 12:34:20PM		
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: NV		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2421075-BLK1)							Prepared: 0	5/22/24 A	Analyzed: 05/23/24		
Diesel Range Organics (C10-C28)	ND	25.0									
Oil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	51.8		50.0		104	50-200					
LCS (2421075-BS1)							Prepared: 0	5/22/24	Analyzed: 05/23/24		
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132					
Surrogate: n-Nonane	53.5		50.0		107	50-200					
LCS Dup (2421075-BSD1)							Prepared: 0	5/22/24	Analyzed: 05/23/24		
Diesel Range Organics (C10-C28)	218	25.0	250		87.3	38-132	17.5	20			
Surrogate: n-Nonane	54.1		50.0		108	50-200					

Chloride

QC Summary Data

		<u> </u>	
Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2024 12:34:26PM

		Anions	by EPA 3	00.0/9056	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421094-BLK1)							Prepared: 0	5/22/24 Anal	yzed: 05/22/24
Chloride	ND	20.0							
LCS (2421094-BS1)							Prepared: 0	5/22/24 Anal	yzed: 05/22/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2421094-BSD1)							Prepared: 0	5/22/24 Anal	yzed: 05/22/24

250

20.0

101

90-110

0.115

251

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

l	Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/28/24 12:34

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Chain	of	Custody
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, ot

	Clie	nt Inform	nation			Invoice Informati	ion						e Or		ly TAT				State				
Client: N	Matador Proc	luction Co	ompany			Company: Ensolum LLC		1	Lab \	WO#	524	.,	Job	Num	ber		1D	2D	3D	Std	NM	CO UT	TX
Project:	Ace Stern Ve	egas TB				Address: 3122 National Park	s Hwy		E4	tDE	27	16	23	203	-00	2002	-		110	X	X	(V	
Project N	Manager: As	hley Giov	engo			City, State, Zip: Carlsbad NM	, 88220																
Address:	3122 Natio	nal Parks	Hwy		F	Phone: 575-988-0055							Ana	lysis	and	Met	hod				EF	A Progr	am
City, Stat	te, Zip: Carls	bad NM,	88220			Email: agiovengo@ensolun	n.com														SDWA	CWA	RCRA
	one: 575-988-0055 Miscellaneous:							(12)									ľ						
	giovengo@e		om							S	N.									. 1	Complian	ce Y	or N
										801	801	-	1				5				PWSID#		-
-				Sam	ple Informa	ation				yd C	yd C	8021	3260	300	Σ	2-5	Aeta				p. 2		
Time	Date Sampled	Matrix	No. of			Sample ID		Lal Num	b	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	rceq 1005 - TX	RCRA 8 Metals					Remarks	
Sampled	Date sampled	IVIATIX	Containers			Sample 10	Field	Num	ber	DRC	GRC	BTE	Š	ਤੌ	BGI	TCE	RCF				· · · · · · · · · · · · · · · · · · ·		
11:20	5/15/2024	Soil	1			BH02 - 3'		1							x								
11:37	5/15/2024	Soil	1.			BH02 - 4'		7	-						х						Do not run unle	45 BH02 + 3' is >	500 Cl or 100 TPH
							+																
1																							
													-										
											Ш												
Addition	nal Instructio	ns: Ple	ase CC: cb	urton@e	ensolum.co	m, agiovengo@ensolum.con	n, chamiit	oneer	nsoli	um.	com,	iesti	relia(gens	olur	n.coi	m						
DECLE SECTION	pler), attest to the		dauthenticity	of this samp	ole. I am aware	that tampering with or intentionally mis	slabeling the s	ample loc	cation	, date	or tim	e of co	ollectio	n is co	nsider	ed frau	ıd and	may b	e grou	inds fo	r legal action		
			Date		Time	Received by: (Signature)	Date	e		Time	1				Samp	les requ	iring th	nermal p	preserva	ation m	ust be received	on ice the d	ay they are
La	ned by: (Signatu	V	3	116/2'	7:3	DIA		.11.	24	11	14	0						packed	in ice a	at an av	g temp above	0 but less tha	n 6 °C on
	by Signatu		Date	1-/	Time	Received by: (Signature)	Pat	elu	7	Time		_	1		subse	quent c	lavs		1	ab U	se Only		
	P		5.	16.26	160	0 1 4.	5	16.2	14	18	33	0			Rec	eive	d on	ice:		NI			
Relinquish	ned by: (Signatu	re)	Date	16.24	7400	Received by (Signature)	Date	117/2	74	Time	nyc	5			T1				T2			T3	
Relinquish	ned by: (Signatu	re)	Date		Time	Received by: (Signature)	Date	e (Time	-1-				A\//	3 Ter	nn °	4	4				
Sample Ma	trix: S - Soil, Sd - S	olid Sa - Sh.	dge A - Agus	IOUS O - OH	er		Co	ntainer	Type	e: p -	glass	. p -	polv/	plast	C. ag	- am	ber p	lass.	v - VC	A			
						her arrangements are made. Hazare															for the ana	lysis of the	above
						rith this COC. The liability of the lab										-			0000	0.000	one mer mile		



envirotech

Printed: 5/17/2024 12:35:57PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

we receive	no response concerning these items within 24 nours of	ine date of this not	ec, an the sa	impres will be uni	nyzeu as requesteu.	
Client:	Matador Resources, LLC.	Date Received:	05/17/24 0	7:45	Work Order ID	D: E405246
Phone:	(972) 371-5200	Date Logged In:	05/17/24 0	8:56	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	05/23/24 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	'ourier	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	carrier. <u>c</u>	<u>Sourier</u>	
	Il samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi				<u>Comm</u>	ents/Resolution
Sample T	<u> Turn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		WO Comments: Do N	•
Sample C	<u>Cooler</u>				BH02 - 4 unless BH0	2 - 3 is >600 Cl or
7. Was a s	sample cooler received?		Yes		100 TPH.	
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes.	were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>			
Sample C	<u>Container</u>					
14. Are a	queous VOC samples present?		No			
15. Are V	OC 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 n	on-VOC samples collected in the correct containers	?	Yes			
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field Lal	<u>oel</u>					
20. Were	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected? ollectors name?		Yes	'		
			Yes			
	<u>Preservation</u> the COC or field labels indicate the samples were p	magamzad9	No			
	ample(s) correctly preserved?	reserveu?	NA			
	filteration required and/or requested for dissolved n	netale?	No			
		netais.	NO			
_	se Sample Matrix	9				
	the sample have more than one phase, i.e., multipha		No			
27. If yes	does the COC specify which phase(s) is to be analy	yzed?	NA			
	act Laboratory					
	amples required to get sent to a subcontract laborato	•	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab	: NA	
Client Ir	<u>istruction</u>					

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ace Stern Vegas TB

Work Order: E405262

Job Number: 23003-0002

Received: 5/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/30/24

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

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

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

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

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

Date Reported: 5/30/24

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

Project Name: Ace Stern Vegas TB

Workorder: E405262

Date Received: 5/20/2024 9:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2024 9:30:00AM, under the Project Name: Ace Stern Vegas TB.

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

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

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

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

Respectfully,

Walter Hinchman

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Sample Summary

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/30/24 13:56

Client Sample ID	Lab Sample ID Matr	ix Sampled	Received	Container
FS01-1.5'	E405262-01A Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
FS02-1.5'	E405262-02A Soi	05/16/24	05/20/24	Glass Jar, 2 oz.
FS03-1.5'	E405262-03A Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
FS04-1.5'	E405262-04A Soi	05/16/24	05/20/24	Glass Jar, 2 oz.
SW01-0-1.5'	E405262-05A Soi	05/16/24	05/20/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

FS01-1.5' E405262-01

		E405262-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2421133
Benzene	ND	0.0250	1	05/23/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/25/24	
Toluene	ND	0.0250	1	05/23/24	05/25/24	
p-Xylene	ND	0.0250	1	05/23/24	05/25/24	
o,m-Xylene	ND	0.0500	1	05/23/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2421133
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2422011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/29/24	
Surrogate: n-Nonane		101 %	50-200	05/28/24	05/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2421137
Chloride	364	20.0	1	05/23/24	05/26/24	

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

FS02-1.5' E405262-02

		E-103202-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: EG		Batch: 2421133
Benzene	ND	0.0250	1	05/23/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/25/24	
Toluene	ND	0.0250	1	05/23/24	05/25/24	
-Xylene	ND	0.0250	1	05/23/24	05/25/24	
o,m-Xylene	ND	0.0500	1	05/23/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: EG		Batch: 2421133
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2422011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/29/24	
Surrogate: n-Nonane		106 %	50-200	05/28/24	05/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2421137
Chloride	122	20.0	1	05/23/24	05/26/24	

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

FS03-1.5' E405262-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2421133
Benzene	ND	0.0250	1	05/23/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/25/24	
Toluene	ND	0.0250	1	05/23/24	05/25/24	
o-Xylene	ND	0.0250	1	05/23/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: EG		Batch: 2421133
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2422011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/29/24	
Surrogate: n-Nonane		112 %	50-200	05/28/24	05/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2421137
Chloride	377	40.0	2	05/23/24	05/26/24	



Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

FS04-1.5' E405262-04

		E403202-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2421133
Benzene	ND	0.0250	1	05/23/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/25/24	
Toluene	ND	0.0250	1	05/23/24	05/25/24	
o-Xylene	ND	0.0250	1	05/23/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2421133
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2422011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/29/24	
Surrogate: n-Nonane		116 %	50-200	05/28/24	05/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2421137
Chloride	253	20.0	1	05/23/24	05/26/24	

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

SW01-0-1.5' E405262-05

		E-103202-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: EG		Batch: 2421133
Benzene	ND	0.0250	1	05/23/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/25/24	
oluene	ND	0.0250	1	05/23/24	05/25/24	
-Xylene	ND	0.0250	1	05/23/24	05/25/24	
,m-Xylene	ND	0.0500	1	05/23/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: EG		Batch: 2421133
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	05/23/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2422011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/29/24	
Surrogate: n-Nonane		111 %	50-200	05/28/24	05/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2421137
Chloride	366	20.0	1	05/23/24	05/26/24	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

Dallas TX, 75240		Project Number: Project Manager:		shley Giovengo	ı			:	5/30/2024 1:56:41PM
		Volatile O	rganics l	by EPA 8021	В				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421133-BLK1)							Prepared: 0:	5/23/24 An	alyzed: 05/25/24
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	7.19		8.00		89.9	70-130			
LCS (2421133-BS1)							Prepared: 0	5/23/24 An	alyzed: 05/25/24
Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.99	0.0250	5.00		99.8	70-130			
o-Xylene	4.86	0.0250	5.00		97.2	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			
LCS Dup (2421133-BSD1)							Prepared: 0:	5/23/24 An	alyzed: 05/25/24
Benzene	5.03	0.0250	5.00		101	70-130	0.912	20	
Ethylbenzene	4.86	0.0250	5.00		97.3	70-130	0.764	20	
Toluene	4.95	0.0250	5.00		99.0	70-130	0.797	20	
o-Xylene	4.81	0.0250	5.00		96.3	70-130	1.00	20	
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130	0.820	20	
Total Xylenes	14.7	0.0250	15.0		97.8	70-130	0.880	20	

70-130



Matador Resources, LLC.Project Name:Ace Stern Vegas TBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/30/2024 1:56:41PM

Nonhalogenated	Organics by	EPA	.8015D -	GRO

Analyst: EG

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

Blank (2421133-BLK1)						Prepared: 05	5/23/24	Analyzed: 05/25/24
Gasoline Range Organics (C6-C10)	ND	20.0						-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00	96.8	70-130			
LCS (2421133-BS2)						Prepared: 05	5/23/24	Analyzed: 05/25/24
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00	96.3	70-130			
LCS Dup (2421133-BSD2)						Prepared: 05	5/23/24	Analyzed: 05/25/24
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	105	70-130	0.378	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00	97.5	70-130			



Matador Resources, LLC.Project Name:Ace Stern Vegas TBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo5/30/20241:56:41PM

Dullas 111, 752 10		r roject manage		mey Groveng	-			_	
	Nonha	Nonhalogenated Organics by EPA 8015D - DRO/ORO							
Analyte	Reporting Spike Source Rec Result Limit Level Result Rec Limits RPD							RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2422011-BLK1)							Prepared: 0	5/28/24 An	alyzed: 05/29/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			
LCS (2422011-BS1)							Prepared: 0	5/28/24 An	alyzed: 05/29/24
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	54.7		50.0		109	50-200			
LCS Dup (2422011-BSD1)							Prepared: 0	5/28/24 An	alyzed: 05/29/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	3.55	20	
Surrogate: n-Nonane	56.6		50.0		113	50-200			



Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2024 1:56:41PM

Anions by EPA 300.0/9056A

		Anions	by EPA 3	00.0/9056 A	1				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2421137-BLK1)							Prepared: 0	5/23/24	Analyzed: 05/26/24
Chloride	ND	20.0							
LCS (2421137-BS1)							Prepared: 0	5/23/24	Analyzed: 05/26/24
Chloride	249	20.0	250		99.6	90-110			
LCS Dup (2421137-BSD1)							Prepared: 0	5/23/24	Analyzed: 05/26/24
Chloride	249	20.0	250		99.4	90-110	0.205	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

ſ	Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/30/24 13:56

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Page	of
e TX	Received by OCD: 8/12/2024 7:51:32 AM
RCRA	CD: 8/1
or N	12/2024
8.	7:51:32
	2 AM

H H	EPA Program SDWA CWA RCRA Compliance Y or N PWSID #
Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Sample Information City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Sample Information	EPA Program SDWA CWA RCRA Compliance Y or N PWSID #
Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Sample Information City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Sample Information	SDWA CWA RCRA Compliance Y or N PWSID#
City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous: Sample Information	SDWA CWA RCRA Compliance Y or N PWSID#
Phone: 575-988-0055 Miscellaneous: Email: agiovengo@ensolum.com \$100,000 Sample Information \$200,000	Compliance Y or N PWSID#
Email: agiovengo@ensolum.com Sample Information	PWSID#
Samble Information (20 by 801)	PWSID#
Sample Date	
Sample Date Sample Matrix No. of Containers Sample Date Sa	Remarks
Time Sampled Date Sampled Matrix No. of Containers Sample ID Date Sampled Samp	Remarks
11:04 5/16/2024 Soil 1 FS01 - 1.5'	
11:06 5/16/2024 Soil 1 FS02 - 1.5' Z x	
11:12 5/16/2024 Soil 1 FS03 - 1.5' 3 x	
11:10 5/16/2024 Soil 1 FS04-1.5' 4 X	
11:13 5/16/2024 Soil 1 SW01-0-1.5' 5 x	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@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 Sampled by: Cole Burton	legal action.
Relinquiched by (Signature) Date Time Received by (Signature) Date Time Samples requiring thermal preservation mu	
S/17/2 4 8 ° 0 0 (F) Sampled or received packed in ice at an avg	temp above 0 but less than 6 °C on
Relinquished by: (Signature) Date 17:24 Time Received by: (Signature) Received on ice: (Y) N	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time T1 T2	T3
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time AVG Temp °C AVG Temp °C	
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 of	



ent expense. The report for the analysis of the above

Page 87 of 120

Printed: 5/22/2024 1:33:00PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/20/24	09:30		Work Order ID:	E405262
Phone:	(972) 371-5200	Date Logged In:	05/17/24	18:52		Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:		17:00 (5 day TAT)		88	
Chain of	Custody (COC)						
1. Does tl	ne sample ID match the COC?		Yes				
2. Does tl	ne number of samples per sampling site location mate	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes	_			
5. Were a	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio					Comments	s/Resolution
Sample 7	<u> [urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample (<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are V	OC 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 n	on-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample contained	ers collected?	Yes				
Field Lal	<u>oel</u>						
	field sample labels filled out with the minimum infor	mation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
	<u>Preservation</u> the COC or field labels indicate the samples were pro	scarriad?	No				
	ample(s) correctly preserved?	esci ved:	NA				
	filteration required and/or requested for dissolved managed	etale?	No				
	•	ctais:	NO				
	see Sample Matrix	. 0					
	the sample have more than one phase, i.e., multiphas		No				
27. If yes	, does the COC specify which phase(s) is to be analyst	zed?	NA				
Subcontr	ract Laboratory						
28. Are sa	amples required to get sent to a subcontract laborator	y?	No				
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: NA		
Client I	<u>istruction</u>						
	<u> </u>						

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ace Stern Vegas TB

Work Order: E407260

Job Number: 23003-0002

Received: 8/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/6/24

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

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

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

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

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

Date Reported: 8/6/24

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

Project Name: Ace Stern Vegas TB

Workorder: E407260

Date Received: 8/1/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/1/2024 8:30:00AM, under the Project Name: Ace Stern Vegas TB.

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

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

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

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

Respectfully,

Walter Hinchman

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

whinchman@envirotech-inc.com

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Laboratory Administrator Office: 505-632-1881

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Client Representative

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	Donoutoda
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/06/24 14:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07 - 0'	E407260-01A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
SS08 - 0'	E407260-02A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/6/2024 2:48:22PM

SS07 - 0' E407260-01

Reporting		ion Prenared	Analyzed	Notes
Lillit	Diluti	ion Frepared	Anaryzeu	Notes
mg/kg	A	analyst: RKS		Batch: 2431106
0.0250	1	08/01/24	08/02/24	
0.0250	1	08/01/24	08/02/24	
0.0250	1	08/01/24	08/02/24	
0.0250	1	08/01/24	08/02/24	
0.0500	1	08/01/24	08/02/24	
0.0250	1	08/01/24	08/02/24	
102 %	70-130	08/01/24	08/02/24	
94.4 %	70-130	08/01/24	08/02/24	
99.9 %	70-130	08/01/24	08/02/24	
mg/kg	A	analyst: RKS		Batch: 2431106
20.0	1	08/01/24	08/02/24	
102 %				
102 70	70-130	08/01/24	08/02/24	
94.4 %	70-130 70-130	08/01/24 08/01/24	08/02/24 08/02/24	
94.4 %	70-130 70-130	08/01/24	08/02/24	Batch: 2431110
94.4 % 99.9 %	70-130 70-130	08/01/24 08/01/24	08/02/24	Batch: 2431110
94.4 % 99.9 % mg/kg	70-130 70-130	08/01/24 08/01/24 Analyst: KM	08/02/24 08/02/24	Batch: 2431110
94.4 % 99.9 % mg/kg 25.0	70-130 70-130 A	08/01/24 08/01/24 analyst: KM 08/01/24	08/02/24 08/02/24 08/02/24	Batch: 2431110
94.4 % 99.9 % mg/kg 25.0 50.0	70-130 70-130 A 1 1 50-200	08/01/24 08/01/24 xnalyst: KM 08/01/24 08/01/24	08/02/24 08/02/24 08/02/24 08/02/24	Batch: 2431110 Batch: 2431112
	Limit mg/kg 0.0250 0.0250 0.0250 0.0250 0.0500 0.0250 102 % 94.4 % 99.9 % mg/kg 20.0	Limit Dilut mg/kg A 0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0500 1 0.0500 1 0.0250 1 0.0250 1 0.0500 70-130 94.4 % 70-130 99.9 % 70-130 mg/kg A 20.0 1	Limit Dilution Prepared 3 mg/kg Analyst: RKS 0.0250 1 08/01/24 0.0250 1 08/01/24 0.0250 1 08/01/24 0.0250 1 08/01/24 0.0500 1 08/01/24 0.0250 1 08/01/24 90.0250 1 08/01/24 99.9% 70-130 08/01/24 99.9% 70-130 08/01/24 99.9% 70-130 08/01/24 3 mg/kg Analyst: RKS 20.0 1 08/01/24	Limit Dilution Prepared Analyzed mg/kg Analyst: RKS 0.0250 1 08/01/24 08/02/24 0.0250 1 08/01/24 08/02/24 0.0250 1 08/01/24 08/02/24 0.0250 1 08/01/24 08/02/24 0.0500 1 08/01/24 08/02/24 0.0250 1 08/01/24 08/02/24 102 % 70-130 08/01/24 08/02/24 94.4 % 70-130 08/01/24 08/02/24 99.9 % 70-130 08/01/24 08/02/24 99.9 % 70-130 08/01/24 08/02/24 99.9 % 70-130 08/01/24 08/02/24



Matador Resources, LLC.Project Name:Ace Stern Vegas TB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo8/6/20242:48:22PM

SS08 - 0'

		E407260-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431106
Benzene	ND	0.0250		1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250		1	08/01/24	08/02/24	
Toluene	ND	0.0250		1	08/01/24	08/02/24	
o-Xylene	ND	0.0250		1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500		1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/01/24	08/02/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/01/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		08/01/24	08/02/24	
Surrogate: Toluene-d8		99.3 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431106
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/01/24	08/02/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/01/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		08/01/24	08/02/24	
Surrogate: Toluene-d8		99.3 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2431110
Diesel Range Organics (C10-C28)	ND	25.0		1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/01/24	08/02/24	
Surrogate: n-Nonane		97.2 %	50-200		08/01/24	08/02/24	

mg/kg

20.0

Analyst: WF

08/01/24

08/02/24

mg/kg

112



Batch: 2431112

Anions by EPA 300.0/9056A

Chloride

Matador Resources, LLC.
Project Name: Ace Stern Vegas TB
5400 LBJ Freeway, Suite 1500
Project Number: 23003-0002
Dallas TX, 75240
Project Manager: Ashley Giovengo 8/6/2024 2:48:22PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			8/6	5/2024 2:48:22PM
	V	olatile Organ	ic Compo	unds by El	PA 82601	В		A	Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431106-BLK1)							Prepared: 0	8/01/24 Anal	yzed: 08/01/24
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	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
LCS (2431106-BS1)							Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Benzene	2.40	0.0250	2.50		95.9	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.41	0.0250	2.50		96.2	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.15	0.0500	5.00		103	70-130			
Total Xylenes	7.73	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike (2431106-MS1)				Source:	E407254-	03	Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Benzene	2.23	0.0250	2.50	ND	89.3	48-131			
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135			
Toluene	2.21	0.0250	2.50	ND	88.2	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.2	43-135			
o,m-Xylene	4.91	0.0500	5.00	ND	98.2	43-135			
Total Xylenes	7.36	0.0250	7.50	ND	98.2	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
Matrix Spike Dup (2431106-MSD1)				Source:	E407254-	03	Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Benzene	2.31	0.0250	2.50	ND	92.6	48-131	3.65	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.8	45-135	5.18	27	
Toluene	2.32	0.0250	2.50	ND	92.7	48-130	5.02	24	
o-Xylene	2.56	0.0250	2.50	ND	102	43-135	4.03	27	
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135	3.86	27	
Total Xylenes	7.66	0.0250	7.50	ND	102	43-135	3.91	27	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			



0.500

0.500

92.8

99.8

70-130

70-130

0.464

0.499

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Ace Stern Vegas TBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo8/6/20242:48:22PM

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

Analyst: RKS

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

	Result	LIIIII	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431106-BLK1)							Prepared: 08	8/01/24 A	nalyzed: 08/01/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
LCS (2431106-BS2)							Prepared: 08	3/01/24 A	nalyzed: 08/01/24
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130	<u> </u>		
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike (2431106-MS2)				Source:	E407254-0	03	Prepared: 08	3/01/24 A	nalyzed: 08/01/24
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
Matrix Spike Dup (2431106-MSD2)				Courses	E407254 (0.2	Prepared: 09	R/01/24 A	nalyzed: 08/02/24
Wiatrix Spike Dup (2431100-WiSD2)				Source.	E407254-0	03	r repared. 00	,, 01, 21, 11,	11a1y2Cu. 06/02/24
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	8.24	20	naryzed. 06/02/24
<u> </u>	50.2 0.535	20.0	50.0 0.500				•		naryzed. 06/02/24
Gasoline Range Organics (C6-C10)		20.0			100	70-130	•		1a1y2cu. 06/02/24



Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Ace Stern Vegas TB 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/6/2024 2:48:22PM

Dullus 171, 732 10		1 Toject Wanage		iney Groveng	,-				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431110-BLK1)							Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			
LCS (2431110-BS1)							Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			
Matrix Spike (2431110-MS1)				Source:	E407254-	07	Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			
Matrix Spike Dup (2431110-MSD1)				Source:	E407254-	07	Prepared: 0	8/01/24 Anal	yzed: 08/01/24
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	3.49	20	
Surrogate: n-Nonane	57.8		50.0		116	50-200			

Chloride

Matrix Spike Dup (2431112-MSD1)

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number Project Manage	: 2	Ace Stern Vega 23003-0002 Ashley Gioven					Reported: 8/6/2024 2:48:22PM
		Anions	by EPA	300.0/9056	4				Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2431112-BLK1)							Prepared: 0	8/01/24 A	nalyzed: 08/01/24
Chloride	ND	20.0							
LCS (2431112-BS1)							Prepared: 0	8/01/24 A	nalyzed: 08/01/24
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2431112-MS1)				Source:	E407259-	03	Prepared: 0	8/01/24 A	nalyzed: 08/01/24
Chloride	250	20.0	250	ND	99.8	80-120			

250

Source: E407259-03

ND

100

80-120

0.132

20.0

250

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.



Prepared: 08/01/24 Analyzed: 08/01/24

20

Definitions and Notes

Matador Resources, LLC.	Project Name:	Ace Stern Vegas TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/06/24 14:48

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 8/13/2024 2:52:09 PM

Page	of

	olum LLC	V 1000												State		
Project: Ace Stern Vegas TB Address: 31	Company: Ensolum LLC Address: 3122 National Parks Hwy		Lab WO# Job					lob Number			2D	3D St	d NN	1 CO UT	r TX	
			E407360 2				13003-0002					x	×			
Project Manager: Ashley Giovengo City, State, Z	Carlsbad NM, 88220		- 6	(A-M							1115				- V - A	
Address: 3122 National Parks Hwy Phone: 575	38-0055					Ana	lysis	and	Met	hod			E	PA Progra	am	
City, State, Zip: Carlsbad NM, 88220 Email: agic	Email: agiovengo@ensolum.com												SDWA	CWA	RCRA	
Phone: 575-988-0055 Miscellaneou																
Email: agiovengo@ensolum.com				0 10									Complia	nce Y	or N	
			8015	8015			0			S			PWSID #			
Sample Information			1	O by	8021	3260	300	N	5-T)	Meta						
Time Sampled Date Sampled Matrix No. of Containers Sample II	Field	Lab Numbe	WOORO PA	DRO/ORO BY GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks		
14:00 7/30/2024 Soil 1 SS07 - 0'		1					Ū	x								
13:20 7/30/2024 Soil 1 SS08 - 0'		2						х								
				1												
				+												
			+													
		-														
			+										1			
Additional Instructions: Please CC: cburton@ensolum.com, agioven bsimmons@ensolum.com	ensolum.com, iestrella@	ensol	um.c	com, b	deal	@ens	olun	n.cor	n, ch	amili	ton@	ensolu	m.com,			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering Sampled by:Brandon Deal	or intentionally mislabeling the samp	ple locati	ion, da	ate or tin	ne of co	ollection	is co	nsidere	ed frau	d and i	may be	grounds	for legal action	n.		
Relinquished by: (Signature) Date Time Q-30 am Received	Signature) Date	1-24	1000	me 0930	5								must be receive avg temp above			
Michelle Gonzales 7-3124 1620 1.J	Signature) Date 7.	3/.20	1 Tin	17 S	30			Rec	eived	l on i	ce:	Lab	Jse Only N			
J. H. 73/24 2400		-24		₀₈₃	2			<u>T1</u>				T2		<u>T3</u>		
Relinquished by: (Signature) Date Time Received	Signature) Date		Tir	me		Dec. of				np °C						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 14 days after results are reported unless other arrangeme		ainer Ty														

envirotech Inc.

Printed: 8/1/2024 2:06:51PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/01/24 (08:30	Work Order ID:	E407260
Phone:	(972) 371-5200	Date Logged In:	07/31/24 1	16:56	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/07/24	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cour	<u>ier</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
	ample cooler received?		Yes			
8. If yes, v	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C			
Sample C			_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	el					
20. Were 1	— field sample labels filled out with the minimum info	ormation:				
Sa	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		No			
	reservation		NT.			
	the COC or field labels indicate the samples were property of the company of the	reserved?	No			
	umple(s) correctly preserved? filteration required and/or requested for dissolved n	natolo?	NA Na			
	•	ictais:	No			
	se Sample Matrix	0				
	the sample have more than one phase, i.e., multipha		No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	imples required to get sent to a subcontract laborato	-	No			
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab: NA	A	
Client In	struction					

Date

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



APPENDIX F

NMOCD Correspondence

From: <u>Clinton Talley</u>

To: Ashley Giovengo; Jason Touchet; Cole Burton

Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 343694

Date: Monday, May 13, 2024 12:55:40 PM

[**EXTERNAL EMAIL**]

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Monday, May 13, 2024 12:47 PM

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

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 343694

EXTERNAL EMAIL

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2405038607.

The sampling event is expected to take place:

When: 05/16/2024 @ 09:00

Where: E-21-22S-28E 0 FNL 0 FEL (32.37579,-104.10039)

Additional Information: N/A

Additional Instructions: 32.37579, -104.10039

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

From: <u>Hamlet, Robert, EMNRD</u>

To: Ashley Giovengo; clinton.talley@matadorresources.com; Jason Touchet

Cc: Cole Burton; Chad Hamilton; Israel Estrella; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson,

EMNRD

Subject: Extension Request - Ace Stern Vegas - Incident Number nAPP2405038607

Date: Tuesday, May 14, 2024 9:22:22 AM

Attachments: image006.png

image007.png image008.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2405038607

Ashley,

OCD Permitting has been revamped recently and automatically defaults to 90 days for a Remediation Closure Report Extension, which this appears to be. An extension to **August 12th, 2024** is approved. Please include this e-mail correspondence in the Remediation Closure Report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us

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



From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Monday, May 13, 2024 11:37 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>;

Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Cole Burton cburton@ensolum.com; Israel

Estrella <iestrella@ensolum.com>

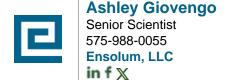
Subject: [EXTERNAL] Extension Request - Ace Stern Vegas - Incident Number nAPP2405038607

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of May 20, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ace Stern Vegas TB, Site (Incident Number nAPP2405038607). The release occurred on February 19, 2024, and approximately 9 barrels (bbls) of crude oil was released onto the caliche pad; 8 bbls of crude oil was recovered. Lateral and vertical delineation sampling to the strictest closure criteria per NMOCD Table I has been completed at the Site and the excavation has been scheduled for this week (05/13/24 through 05/17/2024). In order to complete remediation and confirmation sampling at the Site, and to review laboratory analytical results, Matador respectfully requests a 60-day extension until July 19, 2024. Matador will submit a deferral or closure request following remediation efforts and confirmation sampling. This release remained entirely on-pad and did not impact any sensitive Site receptors.

Thanks,



"Your authenticity is your superpower." - Unknown

From: Clinton Talley

To: <u>Ashley Giovengo</u>; <u>Cole Burton</u>

Cc: <u>Jason Touchet</u>

Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 320752

Date: Wednesday, March 6, 2024 10:36:50 AM

[**EXTERNAL EMAIL**]

Ace Stern Vegas liner notification

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Wednesday, March 6, 2024 10:36 AM

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

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 320752

EXTERNAL EMAIL

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2405038607.

The liner inspection is expected to take place:

When: 03/11/2024 @ 09:00

Where: E-21-22S-28E 0 FNL 0 FEL (32.37579,-104.10039)

Additional Information: Tank containment

Additional Instructions: 32.375835, -104.100481

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

 Failure to notify the OCD of 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.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

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<u>District I</u> 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 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 320752

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320752
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2405038607					
Incident Name	NAPP2405038607 ACE STERN VEGAS TB @ 0					
Incident Type	Oil Release					
Incident Status	Initial C-141 Approved					
Incident Facility	[fAPP2202570824] Ace Stern Vegas Facility Tank					

Location of Release Source					
Site Name Ace Stern Vegas TB					
Date Release Discovered	02/19/2024				
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	4,220
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	03/11/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Tank containment
Please provide any information necessary for navigation to liner inspection site	32.375835, -104.100481

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

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

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

CONDITIONS

Action 320752

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320752
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

Created By		Condition Date
c_talley	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.	3/6/2024

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

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 331396

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	331396
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2405038607
Incident Name	NAPP2405038607 ACE STERN VEGAS TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202570824] Ace Stern Vegas Facility Tank

Location of Release Source	
Site Name Ace Stern Vegas TB	
Date Release Discovered	02/19/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,359	
What is the estimated number of samples that will be gathered	10	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/11/2024	
Time sampling will commence	01:00 PM	
Please provide any information necessary for observers to contact samplers	Southwest corner of tank containment	
Please provide any information necessary for navigation to sampling site	32.37579, -104.10039	

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

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

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

CONDITIONS

Action 331396

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	331396
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
c_talley	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.	4/9/2024

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

QUESTIONS

Action 343694

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343694
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2405038607
Incident Name	NAPP2405038607 ACE STERN VEGAS TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202570824] Ace Stern Vegas Facility Tank

Location of Release Source	
Site Name	Ace Stern Vegas TB
Date Release Discovered	02/19/2024
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	1,359	
What is the estimated number of samples that will be gathered	10	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	N/A	
Please provide any information necessary for navigation to sampling site	32.37579, -104.10039	

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

CONDITIONS

Action 343694

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343694
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/13/2024

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

QUESTIONS

Action 372463

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	372463
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

Prerequisites	
Incident ID (n#)	nAPP2405038607
Incident Name	NAPP2405038607 ACE STERN VEGAS TB @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2202570824] Ace Stern Vegas Facility Tank

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ACE STERN VEGAS TB
Date Release Discovered	02/19/2024
Surface Owner	Private

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 9 BBL Recovered: 8 BBL Lost: 1 BBL.	
Produced Water Released (bbls) Details	Not answered.	
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 372463

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	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.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/12/2024

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

QUESTIONS, Page 3

Action 372463

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	372463
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	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 26 and 50 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)	
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 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 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 ½ and 1 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 200 and 300 (ft.)	
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 pro-	rovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil cont	tamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	d 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)	504
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30881
GRO+DRO (EPA SW-846 Method 8015M)	25111
BTEX (EPA SW-846 Method 8021B or 8260B)	70
Benzene (EPA SW-846 Method 8021B or 8260B)	1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/16/2024
On what date will (or did) the final sampling or liner inspection occur	05/16/2024
On what date will (or was) the remediation complete(d)	05/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	619
What is the estimated volume (in cubic yards) that will be reclaimed	69
What is the estimated surface area (in square feet) that will be remediated	d 740
What is the estimated volume (in cubic yards) that will be remediated	30
These estimated dates and measurements are recognized to be the best guess or calcula	ation 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 adj	justed in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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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, Page 4

Action 372463

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	372463
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(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	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Yes	
What is the name of the NMED facility	R360 Hobbs	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jason.touchet@matadorresources.com

Date: 08/12/2024

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

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

QUESTIONS, Page 5

Action 372463

QUESTIONS (continued)

MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	372463
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	·
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	of the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank battery containment, process pipping
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	619
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	69
	diately under or around production equipment such as production tanks, wellheads and pipelines where n may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	Ace Stern Vegas Facility Tank [fAPP2202570824]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/12/2024

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

QUESTIONS, Page 6

Action 372463

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	372463
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

Sampling Event Information	
Last sampling notification (C-141N) recorded	343694
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1359

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

CONDITIONS

Action 372463

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	372463
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of BH02 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.	8/13/2024
scwells	The use of Micro-Blaze in this instance is solely at the discretion of the operator. The area treated is in area of deferral.	8/13/2024