Page 6

Oil Conservation Division

	Page 1 of 14	<i>43</i>
Incident ID	NRM2012560155	
District RP		
Facility ID		
Application ID		

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items m	nust be included in the closure report.									
A scaled site and sampling diagram as described in 19.15.29.11 NM/	AC									
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)										
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)										
Description of remediation activities										
I hereby certify that the information given above is true and complete to the and regulations all operators are required to report and/or file certain releases may endanger public health or the environment. The acceptance of a C-14 should their operations have failed to adequately investigate and remediated human health or the environment. In addition, OCD acceptance of a C-14 compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD where the Name:	e best of my knowledge and understand that pursuant to OCD rules se notifications and perform corrective actions for releases which a report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, l report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially s that existed prior to the release or their final land use in then reclamation and re-vegetation are complete. <u>emediation Coordinator</u> <u>8/14/2020</u> (575)200-5517									
OCD Only										
Received by:	Date:									
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.										
Closure Approved by:	Date:									
Printed Name:	Title:									



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Remediation and Closure Report

Matador Florence St. 23 #202H Lea County, New Mexico Incident # NRM2012560155

Prepared For:

Plains Marketing, L.P. 577 US HWY 385 N Seminole, TX 79360

Prepared By:

TALON/LPE 408 West Texas Avenue Artesia, New Mexico 88210

July 30, 2020

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TABLE OF CONTENTS

	COVER LETTER	1
II.	INCIDENT DESCRIPTION AND SITE INFORMATION	1
V.	SITE ASSESSMENT AND EXCAVATION ACTIVITIES	3
VI.	REMEDIAL SUMMARY	5
VII.	FIGURES & APPENDICES	8
VII. Al	FIGURES & APPENDICES	8
VII. Al Al	FIGURES & APPENDICES ppendix I – Site Maps ppendix II – Soil Survey, Groundwater Data, & FEMA Flood Map	8 8 13
VII. Al Al Al Ar	FIGURES & APPENDICES ppendix I – Site Maps ppendix II – Soil Survey, Groundwater Data, & FEMA Flood Map ppendix III – C-141 ppendix IV - Site Photograph Documentation	8 13 20 23
VII. Al Al Al Ar Ar	FIGURES & APPENDICES ppendix I – Site Maps ppendix II – Soil Survey, Groundwater Data, & FEMA Flood Map ppendix III – C-141 ppendix IV - Site Photograph Documentation ppendix V - Disposal Manifests	8 13 20 23 25

Page | 1

NMOCD District I 1625 N. French Drive Hobbs, New Mexico 88240 Mr. Ryan Mann **New Mexico State Land Office** 914 North Linam Street Hobbs, New Mexico 88240

Subject: Remediation and Closure Report Matador Florence St. 23 #202H Unit Letter N, Section 23, Township 23S, Range 34E Lea County, New Mexico 32.284333, -103.443128 Incident # NRM2012560155

Plains Marketing, L.P., (Plains) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment, remediation activities and closure request are contained herein.

Incident Description

On May 01, 2020, approximately 6.63 barrels (bbls) of crude oil were released when oil was pumped against a closed valve on a loadout causing the hose to rupture. The release was limited to the caliche well pad, at two separate areas. The impacted area in the vicinity of the loadout initially measured approximately 20' x 8'. The impacted area near the tanker truck was estimated at 30' x 30'. No fluids were recovered. A site map illustrating this incident is presented in Appendix II. An initial C-141 was submitted on May 04, 2020 and is provided in Appendix III. The incident number assigned for this release by NMOCD is NRM2012560155.

Site Information

The Matador Florence St. 23 #202H is located approximately 18 miles southwest of Eunice, New Mexico, on New Mexico State Trust Land. The legal location for this release is Unit Letter N, Section 23, Township 23 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.284333 North and -103.443128 West.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Simona fine sandy loam, with 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. The local surface and shallow geology are middle to lower Pleistocene in age and comprised of eolian deposits derived from sedimentary rock. Drainage courses in this area are typically dry. Research conducted of the BLM mapping database indicates that the project site is not located in a high Karst potential area (Appendix I).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer (NMOSE) web site indicates that the nearest reported depth to groundwater is 265-feet below ground surface (BGS), less than ½ mile from the site. Further research of the NMOSE database has (2) Point of Diversion summaries with drill finish dates of 1980 and 2013, respectively. The depth to water in these wells is recorded at 295' BGS and 318' BGS. Research of the United States Geological Survey (USGS) database has well data within 0.5-mile radius supporting the depth to groundwater at 235' BGS. The referenced groundwater data is presented in Appendix II.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

Approximate Depth to	Groundwater	265 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing any other significant watercourse	ng watercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole,	or a playa lake
□Yes ⊠No	Within 300 feet from an occupied perman school, hospital, institution, or church	nent residence,
∐Yes ⊠No	Within 500 feet of a spring or a private, d well used by less than five households for watering purposes	omestic fresh water or domestic or stock
□Yes ⊠No	Within 1000 feet of any freshwater well o	r spring
∐Yes ⊠No	Within incorporated municipal boundaries municipal freshwater well field covered u ordinance adopted pursuant to Section 3	s or within a defined nder a municipal -2703 NMSA 1978
□Yes ⊠No	Within 300 feet of a wetland	
□Yes ⊠No	Within the area overlying a subsurface m	line
□Yes ⊠No	Within an unstable area	
□Yes ⊠No	Within a 100-year floodplain	

As this incident occurred in an area with a depth to groundwater of greater than 100-feet BGS, the closure criteria for this site is as follows:

Р	а	g	е	3
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	Table I										
	Closure Criteria for Soils Impacted by a Release										
Minimum depth of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit								
>100 feet	Chloride	EPA 300.0 or SM4500 CI B	20,000 mg/kg								
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg								
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg								
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg								
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg								

Site Assessment and Excavation Activities

On May 7 and 8, 2020, Talon mobilized personnel to begin initial delineation of both impacted areas. A PID Meter and field chloride titration data were utilized to guide initial sampling and excavation activities. Grab soil samples were obtained at depths of approximately 1.5-feet BGS with a backhoe. Analytical results from our initial sampling events are presented in the following Data Table 1. Initial site assessment sampling locations are also illustrated on the site map in Appendix I. Complete laboratory reports can be found in Appendix VI. Pursuant to NMOCD guidelines, confirmation soil samples were collected from 200 sq. ft. intervals.

All soil samples were properly packaged in laboratory provided glassware, preserved, and transported to Permian Basin Environmental Lab in Midland, Texas, for analyses of the following constituencies: Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH via EPA Method 8015M), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX via EPA Method 8021B).

Analytical analyses of the samples collected during the initial site delineation of the western excavation (at 1.5-feet deep) indicated the following exceedances of NMOCD closure criteria: S-1, 2,677 mg/kg TPH; S-2, 6,049 mg/kg TPH; and S-3 at 8,079 mg/kg TPH. Analytical testing of the side walls of the western excavation yielded the following results: N. SW (north side wall) 2,145.6 mg/kg TPH; S. SW at 6,142 mg/kg TPH; E. SW at 10,270 mg/kg; and W. SW at 6,056 mg/kg TPH.

Initial delineation samples collected from the eastern excavation (at 1.5-feet deep) indicated the following exceedances of NMOCD closure criteria: S-4, 4,880 mg/kg TPH; S. SW-2 (south side wall, excavation 2) 8,613 mg/kg TPH; E. SW-2, 1,508.1 mg/kg GRO/DRO; and W. SW-2, 1,628.2 mg/kg GRO/DRO.

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Sample	Damaha									
	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl	Field	Field
Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Titrations	PID
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	DRO + GRO 1000 r	combined = ng/kg		2500 mg/kg	20,000 mg/kg	Chlorides	трн
F /7 /2020	1'	1.564	ND	47.2	351	54.3	452.5	26.5	35.45	1370 PPM
5/ // 2020	1.5'R	1.503	ND	158	2170	349	2677	89.8		
5/7/2020	1.5'R	6.269	ND	419	4790	840	6049	178		
5/7/2020	1.5'R	6.5738	0.0238	629	6350	1100	8079	54.1		
5/8/2020	1.5'R	0.04555	ND	204	3990	686	4880	135		55 PPM
5/8/2020	1.5'R	0.0098	ND	ND	751	172	923	961		
F /7 /2020	1'	3.6091	0.0361	100	615	88.8	803.8	18.5		
5/ 7/ 2020	1.5'R	0.7857	ND	94.6	1740	311	2145.6	77.4		
5/8/2020	1.5'R	0.01575	ND	31.2	440	108	579.2	55		2.6 PPM
E /7/2020	1'	5.4509	0.0609	281	2170	310	2761	101	106.35	30 PPM
5/ 7/ 2020	1.5'R	6.5	ND	476	4890	776	6142	270		
5/8/2020	1.5'R	0.2634	ND	423	6850	1340	8613	1820		69 PPM
F /7 /2020	1'	0.2808	ND	27.8	424	82.7	534.5	21.1		
5/ // 2020	1.5'R	16.503	0.123	1250	7680	1340	10270	128		
5/8/2020	1.5'R	0.04604	ND	38.1	1470	345	1853.1	761		2.7 PPM
F/7/2020	1'	ND	ND	ND	61.6	ND	61.6	35.45		1669 PPM
5/ // 2020	1.5'R	6.847	ND	630	4650	776	6056	136		
5/8/2020	1.5'R	0.03863	ND	68.2	1560	294	1922.2	355		8.5 PPM
	Date le 1 Closure 5.29 NMA 5.29 NMA 5.7/2020 5/7/2020 5/7/2020 5/8/2020 5/7/2020	Date (BGS) le 1 Closure Criteria 5.29 NIMAC 1' 1.5'R 1.5'R \$/7/2020 1.5'R	Date (BGS) mg/kg Le 1 Closure Criteria 50 mg/kg 5.29 NMAC 1" 1.564 1.7/2020 1.5"R 1.503 i/7/2020 1.5"R 6.269 i/7/2020 1.5"R 6.738 i/8/2020 1.5"R 0.04555 i/8/2020 1.5"R 0.04555 i/8/2020 1.5"R 0.04555 i/7/2020 1.5"R 0.04555 i/8/2020 1.5"R 0.04555 i/8/2020 1.5"R 0.01575 i/7/2020 1.5"R 0.01575 i/7/2020 1.5"R 0.2634 i/7/2020 1.5"R 0.2634 i/7/2020 1.5"R 0.04604 i/7/2020 1.5"R 0.04604 i/7/2020 1.5"R 0.04604 i/7/2020 1.5"R 0.03863 i/8/2020 1.5"R 0.03863	Date (BGS) mg/kg mg/kg Le 1 Closure Criteria 5.29 NMAC 50 mg/kg 10 mg/kg 5.29 NMAC 1' 1.564 ND 1/7/2020 1.5'R 1.503 ND i/7/2020 1.5'R 6.269 ND i/7/2020 1.5'R 6.5738 0.0238 i/8/2020 1.5'R 0.04555 ND i/8/2020 1.5'R 0.0098 ND i/7/2020 1.5'R 0.01575 ND i/8/2020 1.5'R 0.7857 ND i/7/2020 1.5'R 0.01575 ND i/7/2020 1.5'R 0.6534 ND i/7/2020 1.5'R 0.2634 ND i/7/2020 1.5'R 16.503 0.123 i/8/2020 1.5'R 0.04604 ND i/7/2020 1.5'R 0.04604 ND i/7/2020 1.5'R 6.847 ND i/7/2020 1.5'R 6.847 ND	Date (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg L1 $50 mg/kg$ $10 mg/kg$ $BRO + GRO$ $100 mg/kg$ $BRO + GRO$ $5/7/2020$ 1' $1.5'R$ $1.5'G$ ND 47.2 $5/7/2020$ $1.5'R$ 6.269 ND 419 $5/7/2020$ $1.5'R$ 6.269 ND 419 $5/7/2020$ $1.5'R$ 6.5738 0.0238 629 $5/7/2020$ $1.5'R$ 0.04555 ND 204 $7/7/2020$ $1.5'R$ 0.0098 ND 204 $7/7/2020$ $1.5'R$ 0.07857 ND 31.2 $7/7/2020$ $1.5'R$ 0.01575 ND 31.2 $7/7/2020$ $1.5'R$ 6.5 ND 476 $7/7/2020$ $1.5'R$ 0.2634 ND 423 $7/7/2020$ $1.5'R$ 16.503 0.123 1250 $7/7/2020$ $1.5'R$ 0.04604 <t< td=""><td>Date (BGS) mg/kg DRO + GRO - G</td><td>Date (BGS) mg/kg <th< td=""><td>Date (BGS) mg/kg <th< td=""><td>Date (BGS) mg/kg <th< td=""><td>Date (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Titations 5.2 MM/F 50 mg/kg 10 mg/kg $000 + GRO = 00 / mg/kg$ $2500 mg/kg$ $20,000 / mg/kg$ $Chlorides$ 7/72020 1.' 1.5G4 ND 47.2 351 54.3 452.5 26.5 35.45 7/72020 1.S'R 1.503 ND 1158 2170 349 2677 89.8 7/7/2020 1.S'R 6.629 ND 419 4790 840 6049 178 7/7/2020 1.S'R 0.0238 629 6350 1100 8079 54.1 7/7/2020 1.S'R 0.04555 ND 204 3990 686 4880 135 7/7/2020 1.S'R 0.0361 100 615 88.8 803.8 18.5 7/7/2020 1' 3.6091 0.0361 100 1010 1010</td></th<></td></th<></td></th<></td></t<>	Date (BGS) mg/kg DRO + GRO - G	Date (BGS) mg/kg mg/kg <th< td=""><td>Date (BGS) mg/kg <th< td=""><td>Date (BGS) mg/kg <th< td=""><td>Date (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Titations 5.2 MM/F 50 mg/kg 10 mg/kg $000 + GRO = 00 / mg/kg$ $2500 mg/kg$ $20,000 / mg/kg$ $Chlorides$ 7/72020 1.' 1.5G4 ND 47.2 351 54.3 452.5 26.5 35.45 7/72020 1.S'R 1.503 ND 1158 2170 349 2677 89.8 7/7/2020 1.S'R 6.629 ND 419 4790 840 6049 178 7/7/2020 1.S'R 0.0238 629 6350 1100 8079 54.1 7/7/2020 1.S'R 0.04555 ND 204 3990 686 4880 135 7/7/2020 1.S'R 0.0361 100 615 88.8 803.8 18.5 7/7/2020 1' 3.6091 0.0361 100 1010 1010</td></th<></td></th<></td></th<>	Date (BGS) mg/kg Mg/kg <th< td=""><td>Date (BGS) mg/kg <th< td=""><td>Date (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Titations 5.2 MM/F 50 mg/kg 10 mg/kg $000 + GRO = 00 / mg/kg$ $2500 mg/kg$ $20,000 / mg/kg$ $Chlorides$ 7/72020 1.' 1.5G4 ND 47.2 351 54.3 452.5 26.5 35.45 7/72020 1.S'R 1.503 ND 1158 2170 349 2677 89.8 7/7/2020 1.S'R 6.629 ND 419 4790 840 6049 178 7/7/2020 1.S'R 0.0238 629 6350 1100 8079 54.1 7/7/2020 1.S'R 0.04555 ND 204 3990 686 4880 135 7/7/2020 1.S'R 0.0361 100 615 88.8 803.8 18.5 7/7/2020 1' 3.6091 0.0361 100 1010 1010</td></th<></td></th<>	Date (BGS) mg/kg mg/kg <th< td=""><td>Date (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Titations 5.2 MM/F 50 mg/kg 10 mg/kg $000 + GRO = 00 / mg/kg$ $2500 mg/kg$ $20,000 / mg/kg$ $Chlorides$ 7/72020 1.' 1.5G4 ND 47.2 351 54.3 452.5 26.5 35.45 7/72020 1.S'R 1.503 ND 1158 2170 349 2677 89.8 7/7/2020 1.S'R 6.629 ND 419 4790 840 6049 178 7/7/2020 1.S'R 0.0238 629 6350 1100 8079 54.1 7/7/2020 1.S'R 0.04555 ND 204 3990 686 4880 135 7/7/2020 1.S'R 0.0361 100 615 88.8 803.8 18.5 7/7/2020 1' 3.6091 0.0361 100 1010 1010</td></th<>	Date (BGS) mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Titations 5.2 MM/F 50 mg/kg 10 mg/kg $000 + GRO = 00 / mg/kg$ $2500 mg/kg$ $20,000 / mg/kg$ $Chlorides$ 7/72020 1.' 1.5G4 ND 47.2 351 54.3 452.5 26.5 35.45 7/72020 1.S'R 1.503 ND 1158 2170 349 2677 89.8 7/7/2020 1.S'R 6.629 ND 419 4790 840 6049 178 7/7/2020 1.S'R 0.0238 629 6350 1100 8079 54.1 7/7/2020 1.S'R 0.04555 ND 204 3990 686 4880 135 7/7/2020 1.S'R 0.0361 100 615 88.8 803.8 18.5 7/7/2020 1' 3.6091 0.0361 100 1010 1010

Table	1:	Initial	Delin	eation	Soil	Sample	Anal	vsis
I UDIC		milliar		Julion	001	Gumpic	/ wildi	y 0/0

SW = Sidewall Soil Sample ND = Analyte Not Detected R=Refusal with Backhoe

On May 19, 2020, based on the field and analytical results from our initial soil delineation activities, further excavation activities of the respective spill areas commenced. Additional excavation and confirmation soil sampling activities were undertaken in the previously identified areas of soil samples S-1, S-2, S-3, and S-4. Additional bottom confirmation samples (S-6 and S-7) were also collected and analyzed for TPH, the constituent of concern, to document that NMOCD closure criteria had been met. Bottom confirmation sampling results for sample S-1 indicated TPH concentrations at 65.9 mg/kg. Analytical results for samples S-2, S-3 and S-4 revealed no evidence of TPH concentrations within laboratory method detection limits. TPH concentrations at bottom confirmation sample S-6 were 39.5 mg/kg, and TPH concentrations at S-7 were 58.5 mg/kg.

Additionally, the sidewalls of both impacted areas were expanded as dictated by the analytical results from our initial assessment until NMOCD closure criteria had been achieved. The final excavation of first impacted area (east excavation) at the loadout measured approximately 25'x13'x1.5'. Sidewall confirmation sampling results for TPH from the east excavation are as follows: S. SW-2, 638 mg/kg (south side wall 2); E. SW-2, 1053 mg/kg TPH; and W. SW-2, 234.1 mg/kg TPH. The completed excavation of the second impacted area (west excavation) measured approximately 42'x8-15'x2.5'. Confirmation side wall sample analysis for TPH from the west excavation are as follows: N. SW (north side wall) and S. SW were below laboratory method detection limits for TPH; E.SW, 34.6 mg/kg TPH and W.SW, 77.1 mg/kg TPH. The locations of sample positions and excavation dimensions can be found on the site plan in Appendix I.

Complete laboratory reports are attached in Appendix VI. Confirmation sampling results taken every 200 sq. ft. are shown below.

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD 1 1	Fable 1 Closur 19.15.29 NMA	re Criteria C	50 mg/kg	10 mg/kg	DRO + GRO 1000	combined = mg/kg		2500 mg/kg	20,000 mg/kg
S-1	5/19/2020	2.5'	NT	NT	ND	65.9	36.4	65.9	NT
S-2	5/19/2020	2.5'	NT	NT	ND	ND	ND	0	NT
S-3	5/19/2020	2.5'	NT	NT	ND	ND	ND	0	NT
S-4	5/19/2020	2.5'	NT	NT	ND	ND	ND	0	NT
S-6	5/19/2020	1.5'	NT	NT	ND	39.5	ND	39.5	NT
S-7	5/19/2020	1.5'	NT	NT	ND	58.5	ND	58.5	NT
N.SW	5/19/2020	1.5'	NT	NT	ND	ND	ND	0	NT
S.SW	5/19/2020	1.5'	NT	NT	ND	ND	ND	0	NT
S.SW-2	5/19/2020	1.5'	NT	NT	ND	536	102	638	NT
E.SW	5/19/2020	1.5'	NT	NT	ND	34.6	ND	34.6	NT
E.SW-2	5/19/2020	1.5'	NT	NT	ND	874	179	1053	NT
W.SW	5/19/2020	1.5'	NT	NT	ND	77.1	ND	77.1	NT
W.SW-2	5/19/2020	1.5'	NT	NT	ND	186	48.1	234.1	NT
0111 0:4		Commilia		nalita Na	Teeted		ا مد ام م		a al

Table 2: Confirmation Soil Sample Analysis

SW = Sidewall Soil Sample NT = Analyte Not Tested ND = Analyte Not Detected

Remedial Summary

The impacted area in the vicinity of sample point areas S-1 through S-3 (western excavation) was excavated to a total depth of 2.5-feet BGS. The horizontal extent of this excavation measured approximately 42' long x 8-15' wide. Excavation areas are shown on the attached site plan.

The eastern excavation area near the load out at sample locations S-4 through S-7 was excavated to depths of 1.5-feet to 2.5-feet deep at S-4. The sidewalls were advanced horizontally by approximately 3'- 4' during the excavation process to achieve closure criteria for soil constituencies of concern. The final excavated area measured approximately 25' long by 13' wide.

Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas in 200 sq. ft. areas to verify that all contaminants above closure criteria had been removed. Sidewall excavations continued until closure NMOCD criteria was met. The results are shown on Data Table 2 above, and the corresponding lab reports may be found in Appendix VI.

The excavated material (approximately 96 yards) was transported to Lazy Ace Land Farm, a NMOCD approved solid waste disposal facility. Disposal manifests are appended in Appendix V.

The excavated areas were backfilled with new caliche, machine compacted and contoured to match the surrounding location.

Closure

Based on the site assessment and characterization data, remedial actions completed and confirmation sampling results obtained for this project, on behalf of Plains Marketing, L.P., we respectfully request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Rebecca Pons Project Manager David J. Adkins Regional Manager

Attachments:

Appendix ISite MapsAppendix IIGroundwater Data, Soil Survey & FEMA Flood MapAppendix IIIInitial C-141Appendix IVPhotographic DocumentationAppendix VDisposal ManifestsAppendix VILaboratory Reports



<u>APPENDIX I</u>

SITE MAP

KARST MAP

ΤΟΡΟ ΜΑΡ

LOCATOR MAP

Page 10 of 143



Received by OCD: 8/17/2020 2:35:42 PM

Page 11 of 143









<u>APPENDIX II</u>

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

Page 15 of 143



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer	(R=POD been rep O=orpha) has blaced, aned,									4.05				
serves a water right file.)	C=the fil closed)	C=the file is closed)			(qu (qu larg	art art jes	ers a ers a t)	re 1=N re sma	IW 2=N allest to	E 3=SW 4 (N	4=SE) IAD83 UTM in r	neters)	(In f	eet)	
POD Number	Code	POD Sub- basin	County	Q 64	Q 116	Q 6 4	Sec	Tws	Rng	x	Y	DistanceDe	othWellDep	V thWater Co	/ater olumn
CP 00580		CP	LE	3	4	3	23	235	34E	646524	3572948* 💽	143	220		
CP 00606		CP	LE		4	1	23	23S	34E	646613	3573854* 🍋	819	650	265	385
CP 00618		CP	LE	1	2	4	22	23S	34E	645713	3573539* 🍋	1053	428	295	133
CP 01258 POD1		CP	LE	1	4	3	22	23S	34E	645015	3573221 🔵	1634	25		
CP 01258 POD3		CP	LE	1	4	3	22	23S	34E	644938	3573097 🌍	1701	25		
CP 01258 POD2		CP	LE	1	4	3	22	23S	34E	644941	3572883 🥘	1704	65		
CP 01120 POD1		CP	LE	2	3	3	14	23S	34E	646366	3574753 🥘	1739	397	318	79
CP 01785 POD1		CP	LE	4	1	3	14	23S	34E	646203	3575003 🍋	2016	488	245	243
CP 00637		CP	LE	3	3	4	15	23S	34E	645293	3574541* 🍋	2019	430	430	0
E 07616 POD1		Е	то							646466	3576970 🍋	3939	500	300	200
CP 01760 POD1		CP	LE	3	1	2	16	23S	34E	643627	3575897 🥃	4154	767	290	477
CP 01730 POD1		CP	LE	2	2	1	16	23S	34E	643549	3575824 🍋	4162	594	200	394
C 02386		CUB	LE	4	1	2	04	24S	34E	643962	3569290* 🌍	4603	575	475	100
C 02397		CUB	LE	4	1	2	04	24S	34E	643962	3569290* 🥘	4603	575	475	100
CP 00614 POD2		CP	LE	4	3	3	29	23S	35E	651102	3571401 🍋	4753	440	320	120
											Avera	age Depth to W	ater:	328 fee	t
												Minimum Dep	oth:	200 fee	t
												Maximum Dep	oth:	475 fee	t
Record Count:15															
UTMNAD83 Radius	Search (in meter	rs):												
Easting (X): 646	638.557		North	ing	(Y):	3573	034,99	97	4	Radius: 5000				
*UTM location was derived	l from PLS	S - see H	lelp												
The data is furnished by the	NMOSE/IS	SC and is	accepted	by	the	rec	ipient	with th	e expres	sed under	standing that the	OSE/ISC make I	no warranties, e	expressed or in	mplied,

concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

5/1/20 4:45 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER







New Mexico Office of the State Engineer Point of Diversion Summary

	(qu (a	arters a uarters	re 1= are si	NW 2 malles	=NE 3= st to larc	SW 4 lest)	4=SE) (NAD8)	3 UTI	vin meters)				
Well Tag	POD	Number	Q	64 Q16	Q4	Sec	Tws	Rn	g	Х	Ý		
NA	CP (01120 POD1	2	23	3	14	23S	348	E 6463	66	3574753 🌢	j.	
Driller Lice	Driller License: 1292					ny:	BE	NTL	E WATER	WE	LL SERVIC	E	
Driller Name: BENTLE, BILLY L.													
Drill Start Date: 01/09/2013				Finis	h Da	te:	0	4/06	6/2013	Plu	g Date:		
Log File D	PCV	/ Rcv	Date):				So	urce:	Shallow			
Pump Typ	e:		Pipe	Pipe Discharge Size:							Estimated Yield:		
Casing Siz	:e:	6.13	Dep	Depth Well: 397 feet			eet	Dej	oth Water:	318 feet			
	Wate	r Bearing Stratific	ation	s:	То	рΒ	ottom	D	escription			1000 C	
						0	20	0	ther/Unkno	wn			
					4	3	397	Sa	andstone/G	irave	el/Conglome	erate	
		Casing Perfo	ration	IS:	То	рВ	ottom						
						1	20						
					2	0	277						
					27	7	397						

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

8/6/20 3:49 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

			quarters) (quarter)	are 1=N s are sma	W 2=NE 3 allest to la	3=SW 4=S irgest)	E) (NAD83 L	ITM in mete	rs)	
Well Tag	POD	Number	Q64 Q1	6 Q4 S	Sec Tw	s Rng	Х		Y	
	CP	00618	1 2	2 4	22 23	3 34E	645713	357353	9* 🌍	
Driller Lic	ense:	46	Driller Co	ompan	y: A	ввотт	BROTHEF	RS COMP	ANY	
Driller Nar	ne:	ABBOTT, MUR	RELL							
Drill Start	Date:	05/01/1980	Drill Fini	sh Date	e:	05/05/19	980 P	lug Date	:	06/10/1981
Log File D	ate:	05/09/1980	PCW Rev	/ Date:			s	ource:		Shallow
Pump Typ	e:		Pipe Dise	charge	Size:		E	stimated	Yield	:
Casing Siz	ze:	7,00	Depth W	ell:		428 feet	D	epth Wat	ter:	295 feet
	Wate	r Bearing Strati	fications:	Тор	Botto	m Des	cription			
				295	42	28 Othe	er/Unknow	า		
		Casing Per	forations:	Тор	Botto	m				
				358	4	28				

*UTM location was derived from PLSS - see Help

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

8/6/20 1:29 PM

POINT OF DIVERSION SUMMARY

Page 19 of 143



321654103261101 235.34E.23.42332

USGS

Page 20 of 143

Received by OCD: 8/17/2020 2:35:42 PM

Lea County, New Mexico

SE-Simona fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmr2 Elevation: 3,000 to 4,200 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 58 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam *Bk - 8 to 16 inches:* gravelly fine sandy loam *Bkm - 16 to 26 inches:* cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 35 percent
Gypsum, maximum in profile: 1 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s

USDA

Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: Shallow Sandy (R042XC002NM) Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 8 percent Ecological site: Very Shallow 16-21" PZ (R077CY037TX) Hydric soil rating: No

Lea

Percent of map unit: 7 percent Ecological site: Limy Upland 16-21" PZ (R077CY028TX) Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 16, Sep 15, 2019







OTHER AREAS OF SPECIAL FLOOD HAZARD AREAS SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT FLOOD HAZARD Legend **OTHER AREAS** STRUCTURES | 1111111 Levee, Dike, or Floodwall MAP PANELS authoritative NFHL web services provided by FEMA. This map was exported on 6/18/2020 at 5:49 PM and does not reflect changes or amendments subsequent to this date and FIRM panel number, and FIRM effective date. Map images for time. The NFHL and effective information may change or unmapped and unmodernized areas cannot be used for legend, scale bar, map creation date, community identifiers, elements do not appear: basemap imagery, flood zone labels, This map image is void if the one or more of the following map become superseded by new data over time. The flood hazard information is derived directly from the accuracy standards The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below. Received by OCD: 8/17/2020 23359442 AMAna. This map complies with FEMA's standards for the use of FEATURES GENERAL | - - - Channel, Culvert, or Storm Sewer OTHER Ŷ (in) NO SCREEN Area of Minimal Flood Hazard Zone X ~ 513~ The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location. \boxtimes 20.2 17.5 Effective LOMRs **Cross Sections with 1% Annual Chance** Area with Flood Risk due to Levee Zone D 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag Water Surface Elevation Levee. See Notes. Zone X Area with Reduced Flood Risk due to Chance Flood Hazard Zone X **Regulatory Floodway** Without Base Flood Elevation (BFE) Zone A, V, A99 Unmapped No Digital Data Available Digital Data Available Profile Baseline **Base Flood Elevation Line (BFE)** Coastal Transect Area of Undetermined Flood Hazard Zone Future Conditions 1% Annual areas of less than one square mile Zone With BFE or Depth Zone AE, AO, AH, VE, AR Hydrographic Feature **Coastal Transect Baseline** Jurisdiction Boundary Limit of Study



APPENDIX III

INITIAL C-141

Page 24 of 143

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nRM2012560155
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Plains Marketing, L.P.	OGRID 713291
Contact Name Amber Groves	Contact Telephone 575-200-5517
Contact email algroves@paalp.com	Incident # (assigned by OCD)
Contact mailing address 577 US HWY 385 N Seminole, TX 79360	

Location of Release Source

Latitude 32.284333

Longitude <u>-103.443128</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Matador Florence St. 23 #202H	Site Type Tank Battery
Date Release Discovered 5/1/2020 @ 12:00 AM	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	23	238	34E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

🛛 Crude Oil	Volume Released (bbls) 6.63 bbls	Volume Recovered (bbls) 0 bbls
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Oil was pumped against a closed valve causing a hose rupture resulting in the approximate release of 6.63 bbls of crude oil.

Page 26 of 143

Incident ID	nRM2012560155
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Amber Groves	Title: <u>Remediation Coordinator</u>
Signature:	Date: <u>5/4/2020</u>
email: algroves@paalp.com	Telephone: <u>575-200-5517</u>
OCD Only	
Received by:	Date:

Amber L Groves

From:	Alan Swartz
Sent:	Friday, May 1, 2020 9:40 AM
То:	Amber L Groves
Subject:	Matador, Florence spill calculations

Here are my calculations for the two areas.

20' x 8' x 2' x .0154 = 4.9 30' x 30' x .0625 (1/8) x .0154 = 1.73

6.63 barrels

Alan Swartz District Manager Plains Marketing L.P. Hobbs NM <u>Paswartz@paalp.com</u> Office: 575-393-5611 Cell: 580-339-3608



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Page 28 of 143

Devon Shakespeare 20 Fed Com 3H



Aerial View of East Impacted Area at Load Out



Aerial View of West Impacted Area

Devon Shakespeare 20 Fed Com 3H



Excavation of East Impacted Area, Facing North



Excavation of West Impacted Area, Facing Northeast

Devon Shakespeare 20 Fed Com 3H



East Excavation Backfilled, Facing North



West Excavation Backfilled, Facing North



APPENDIX V

DISPOSAL MANIFESTS

Page 32 of 143

Lease Operator	Information:
Name:	105 WAS AR Digenterson V populates
Address:	· ·
Pnone #:	
Originating L	ocation of waste material:
Leas	se Name: Matudae floamer Sail
Sec.	TR
Transporter Info	rmation:
Name:	low LPE
Address:	7 W. Texas Aut.
Phone #:	116 874X
Driver Signat	are: John Mart
Date:	<u> </u>
	Dump Truck # 1178
Non-Hazardous H	Iydro-Carbons: # of Yards:
Waste materia	1 placed in cell number: <u>A &</u>
Lazy Ace Laudfarm, L.L.	
P.O. Box 130 Funice NM 88231	W1/2SW1/4 S22T20SR34E
Danio, min 66251	
Contacts: Danny Berry	
(575) 393-6964 - Home	
(375) 309-3200 ~ Cell	, ,
As a condition of acceptance	for disposal, I hereby certify that this waste is an exempt waste as defined by the second seco
erations, exempt from Resou	ree Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not
ixed with non-exempt waste.'	9
· •1•	Deter
SCHING Representative	

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Received by OCD: 8/17/2020 2:35:42 PM

Manifest # Lazy Ace Landfarm **Lease Operator Information:** FERINIC BRENES MATAdas Name: _ Address; Phone #: Originating Location of waste material: Lease Name:____ Sec. _T____R **Transporter Information:** TATON LPE Name: _ 408 W. TEVASAUE ARTESIANM STRIG Address: 746 8768 Phone #: Driver Signature: e oli 2020 đ le = Date: Total Yards: 40 **Non-Hazardous Hydro-Carbons:** Waste material placed in cell number: Lazy Ace Landfarm, LLLP Permit # NM 01-0041 P.O. Box 130 W1/2SW1/4 S22T20SR34E Eunice, NM 88231 Contacts: Danny Berry (575) 393-6964 - Home (575) 369-5266 - Cell "As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste." Facility Representative: Date: White - Original Canary - Invoice Pink - Trucker

Page 34 of 143

ease	Name: Plaines All American Pirceline
	Address:
	Phone #:
·• .	Originating Location of waste material: Lease Name: <u>Matadam Flormace Scill</u>
	Sec T R
ransj	porter Information:
	Name: Talon L. DE
	Address: 1/28 W. Texas And, Artesa ANY
	Phone #: <u>575 7468768</u>
	Driver Signature://ourc
	Date: 10 3 - 30
	Durpstruck # 1178
lon-H	Total Yards:
	Waste material placed in cell number: <u>AS</u>
Lazy A P.O. Bo Eunice	ce Landfarm, LLLP Permit # NM 01-0041 ox 130 W1/2SW1/4 S22T20SR34E , NM 88231
Cont Danny (575) 3 (575) 3	t acts: y Berry 193-6964 - Home 169-5266 - Cell
As a cond wironmen crations, xed with	ition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by ntal Protection Agency (EPA). The waste are: generated from oil and gas exploration and producti exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not non-exempt waste."
	Defet

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Manifest # Lazy Ace Landfarm Lease Operator Information: PLAINS PLERENCE MATAda Name: _ Address: Phone #:___ Originating Location of waste material: Lease Name:_ _____ T_____ R _____ Sec. **Transporter Information:** THION LAG Name: W. TEVAS ARTESIA MM. STRUE Address: 40 Phone #: 7469768 ic hnol Driver Signature: Date: ŧø. 2 020 **Non-Hazardous Hydro-Carbons:** Total Yards: 20 Waste material placed in cell number: Lazy Ace Landfarm, LLLP Permit # NM 01-0041 P.O. Box 130 W1/2SW1/4 S22T20SR34E Eunice, NM 88231 **Contacts:** Danny Berry (575) 393-6964 - Home (575) 369-5266 - Cell "As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (BPA). The waste are' generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste." Facility Representative: Date: White - Original Canary - Invoice Pink - Trucker

Page 36 of 143


APPENDIX VI

LABORATORY DATA

Page 37 of 143

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

David Adkins Talon LPE 2901 S. State Hwy 349 Midland, TX 79706

Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Location: Lea County, NM

Lab Order Number: 0E11004



NELAP/TCEQ # T104704516-18-9

Report Date: 05/14/20

Page 1 of 34

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Pa	

Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

Fax: (432) 522-2180

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ I'	0E11004-01	Soil	05/07/20 11:45	05-11-2020 13:47
N.SW @ 1'	0E11004-02	Soil	05/07/20 11:50	05-11-2020 13:47
S.SW @ I'	0E11004-03	Soil	05/07/20 11:55	05-11-2020 13:47
E.SW @ I'	0E11004-04	Soil	05/07/20 12:00	05-11-2020 13:47
W.SW @ 1'	0E11004-05	Soíl	05/07/20 12:05	05-11-2020 13:47
S-1 @ 1.5'R	0E11004-06	Soil	05/07/20 14:00	05-11-2020 13:47
S.SW @ 1.5'R	0E11004-07	Soil	05/07/20 14:05	05-11-2020 13:47
N.SW @1.5'R	0E11004-08	Soil	05/07/20 14:10	05-11-2020 13:47
E.SW @ 1.5'R	0E11004-09	Soil	05/07/20 14:15	05-11-2020 13:47
W.SW @ 1.5'R	0E11004-10	Soil	05/07/20 14:20	05-11-2020 13:47
S-2 @ 1.5'R	0E11004-11	Soil	05/07/20 14:25	05-11-2020 13:47
S-3 @ I.5'R	0E11004-12	Soil	05/07/20 14:30	05-11-2020 13:47
S-4 @ 1.5'R	0E11004-13	Soil	05/08/20 13:15	05-11-2020 13:47
S-5 @ 1.5'R	0E11004-14	Soil	05/08/20 13:20	05-11-2020 13:47
N.SW-2 @ 1.5'R	0E11004-15	Soil	05/08/20 13:25	05-11-2020 13:47
S.SW-2 @ 1.5'R	0E11004-16	Soil	05/08/20 13:30	05-11-2020 13:47
E.SW-2 @ 1.5'R	0E11004-17	Soil	05/08/20 13:35	05-11-2020 13:47
W.SW-2 @ 1.5'R	0E11004-18	Soil	05/08/20 13:40	05-11-2020 13:47

S-1 @ 1' 0E11004-01 (Soil)

	N (1	Reporting	T T = { 1	Dibution	Datab	Deserved	Austrand	Mathad	Notor
Analyte	Result	Limit	Units	Dilution	Batch	Ргерагел	Anaiyzeo	Nicinou	NOICS
	Pern	rian Basin F	Cnvironmer	ital Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluenc	0.272	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	0.272	0.0217	ing/kg đry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	1.02	0.0435	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylenc (o)	0.280	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.9 %	75-1.	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difinorobenzene		90,9 %	75-1.	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	s							
Chloride	26.5	1.09	mg/kg dry	1	P0E1203	05/12/20	05/12/20	EPA 300.0	
% Moisture	8.0	0.1	%	I	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	(5M							
C6-C12	47.2	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	351	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	54.3	27.2	ing/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-13	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-1.	30	P0E1204	05/12/20	()5/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	453	27.2	mg/kg dry	I	[CALC]	05/12/20	05/12/20	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE			Fax: (432) 522-2180						
2901 S. State Hwy 349		Project Num	ber: 700376	5.508.01					
Midland TX, 79706		Project Mana	iger: David A	Adkins					
L		N	SW @ 1						
		011	001 03 (6)1	:1\					
		011	004-02 (50	11) 					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	ian Basin I	Invironmen	ntal Lab,	L.P.				
BTEX by 8021B									
Benzene	0.0361	0.0217	mg/kg dry	20	POEII04	05/11/20	05/11/20	EPA 8021B	
Toluene	0.731	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	0.662	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	2.18	0.0435	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (0)	0.607	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.5 %	75-I	25	P0E1104	05/11/20	05/11/20	EFA 8021B	
Surrogate: 4-Bromofluorobenzene		90.3 %	75-1	25	P0E1104	05/11/20	05/11/20	EIA 8021B	
General Chemistry Parameters by E	PA / Standard Method	<u>s</u>							
Chloride	18,5	1.09	mg/kg dry	1	P0E1203	05/12/20	05/12/20	EPA 300,0	
% Moisture	8.0	0.1	%	L	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	100	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	615	27.2	mg/kg dry	j	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	88.8	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-1.	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	804	27.2	mg/kg dry	1	[CALC]	05/12/20	05/12/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 4 of 34

Talon LPE			Fax: (432) 522-2180						
2901 S. State Hwy 349		Project Num	ber: 700376	5.508.01					
Midland TX, 79706		Project Mana	iger; David .	Adkins					
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		··					
		S.	SW @T						
		0E11	.004-03 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Invironme	ntal Lab,	L, P,				
BTEX by 8021B									
Benzene	0.0609	0.0215	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	1.19	0.0215	ung/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzenc	1.05	0.0215	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	3,15	0.0430	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (0)	0.945	0.0215	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bramofluorabenzene		94.5 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.4 %	75-1	25	P0E1104	0,5/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	5							
Chloride	101	1.08	mg/kg dry	ł	P0E1203	05/12/20	05/12/20	EPA 300.0	
% Moisture	1.0	0,1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M					·		
C6-C12	281	26.9	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	2170	26.9	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	310	26.9	mg/kg dry	ł	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogaie: 1-Chlorooctane		121 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2760	26.9	mg/kg dry	1	[CALC]	05/12/20	05/12/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 5 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins							Fax: (432) 522-2180		
		E. 0711	SW @1' 004-04 (So	in.							
		01511	004-04 (50								
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Pern	nian Basin I	Invironmei	ntal Lab, I	L <b>.P</b> .						
BTEX by 8021B											
Benzene	ND	0.0215	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Toluene	0.0772	0.0215	ing/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 802 I B			
Ethylbenzene	0.0406	0.0215	mg/kg dry	20	POE1104	05/11/20	05/11/20	EPA 802   B			
Xylene (p/m)	0.163	0,0430	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (0)	0.0381	0.0215	ıng/kg dıy	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 4-Bromofluorobenzene		83.8 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		89.6 %	75-1	25	POEII04	05/11/20	05/11/20	EPA 8021B			
General Chemistry Parameters by E	PA / Standard Method	5									
Chloride	21.1	1.08	mg/kg dry	1	P0E1203	05/12/20	05/12/20	EPA 300.0			
% Moisture	7.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216			
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M									
C6-C12	27.8	26.9	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M			
>C12-C28	424	26.9	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M			
>C28-C35	82.7	26.9	mg/kg dry	l	P0E1204	05/12/20	05/12/20	TPH 8015M			
Surrogaie: 1-Chlorooctane		107 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M			
Surrogate: o-Terphenyl		114 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M			
Total Petroleum Hydrocarbon C6-C35	535	26.9	mg/kg đry	1	[CALC]	05/12/20	05/12/20	cale			

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Page 6 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins							22-2180
		W	SW @1'						
		0E11	004-05 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Cnvironme	ntal Lab, I	P.				
BTEX by 8021B									
Benzene	ND	0.0217	ıng/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	ND	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	ND	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	ND	0.0435	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (o)	ND	0.0217	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	,
Surrogate: 1,4-Difluorohenzene		91.7 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.7 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	<u>s</u>							
Chloride	18.8	1.09	mg/kg dry	1	P0E1203	05/12/20	05/12/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	(5M							
C6-C12	ND	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	61.6	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.6 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphenyl		94.0 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	61.6	27.2	mg/kg dry	1	[CALC]	05/12/20	05/12/20	calc	

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Page 7 of 34

Talon LPE 2901 S. Slate Hwy 349 Midland TX, 79706		Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins							22-2180
· ·		S	1 @ 1.5'R	a).					
		0611	004-00 (80	ii)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
· · · · · · · · · · · · · · · · · · ·	Pern	ian Basin I	Environme	atal Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	0.129	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	0.264	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	1.11	0.0412	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (o)	0.321	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA \$021B	
Surrogate: 1,4-Difluorobenzene		91.1 %	7 <i>5-1</i>	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromafluorobenzene		91.8 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by I	<u>EPA / Standard Method</u>	s							
Chloride	89.8	1.03	mg/kg dry	1	P0E1203	05/12/20	05/12/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 80	15M							
C6-C12	158	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	2170	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	349	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphonyl		110 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Total Petroleum Hydrocarbon	2680	25.8 mg/kg dry 1 [CALC] 05/12/20				05/12/20	calo		

C6-C35

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 8 of 34

Talon LPE

2901 S. State Hwy 349		Project Num	ber: 700376	5.508.01					
Midland TX, 79706		Project Mana	ger: David 2	Adkins				<u></u>	
		S.S	W @ 1.5')	R					
		OFII	004-07 (50	H)			<b>.</b>		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	aian Basin I	Invironme	ntal Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	1.05	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	1.36	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	4.09	0.0412	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (0)	1.37	0,0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.4 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-1	25	<i>P0E1104</i>	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by El	A / Standard Method	s							
Chloride	270	1.03	mg/kg đry	I	P0E1203	05/12/20	05/12/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 80	15M							
C6-C12	476	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	4890	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	776	25.8	mg/kg dry	)	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorosctane		126 %	70-I	30	POE1204	05/12/20	05/12/20	TPH 8015M	
N Surrogate: o-Terphenyl		110 %	70-I	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6140	25.8	mg/kg dry	1	[CALC]	05/12/20	05/12/20	cale	

Project: Plains Matador Florence St. 23 #202H

Received by OCD: 8/17/2020 2:35:42 PM

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Page 9 of 34

Fax: (432) 522-2180

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Fax: (432) 52	2-2180						
		N.S	W @ 1.5']	R					
		01511	004-08 (So)	(I) 					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	aian Basin I	Invironmer	ntal Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	0.0957	0.0206	wg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	0.134	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	0.556	0.0412	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (0)	0.156	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.7 %	75-1	25	POEIIO4	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	5	<b></b>						
Chloride	77.4	1.03	mg/kg dry	1	P0E1203	05/12/20	05/13/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	94.6	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C12-C28	1740	25.8	ıng/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
>C28-C35	311	25.8	mg/kg dry	1	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-1	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-1.	30	P0E1204	05/12/20	05/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2140	25.8	mg/kg dry	1	[CALC]	05/12/20	05/12/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 10 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins							
		E.S	W @ 1.5'I	R					
		0E11	004-09 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	ian Basin I	Environmen	atal Lab, I	L.P.				
BTEX by 8021B	November 1 Bury and the second s								
Benzene	0.123	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	3.47	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 802   B	
Ethylbenzene	3,96	0.0208	ing/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	8.95	0.0417	mg/kg đry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (o)	3.17	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		70.5 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.6 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	s							
Chloride	128	1.04	mg/kg dry	1	P0E1203	05/12/20	05/13/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	1250	130	mg/kg dry	5	P0E1204	05/12/20	05/13/20	TPH 8015M	
>C12-C28	7680	130	mg/kg dry	5	P0E1204	05/12/20	05/13/20	TPH 8015M	
>C28-C35	1340	130	mg/kg dry	5	P0E1204	05/12/20	05/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-1	30	P0E1204	05/12/20	05/13/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-1	30	P0E1204	05/12/20	05/13/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	10300	130	mg/kg dry	5	[CALC]	05/12/20	05/13/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 11 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Project: Plains Malador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins							Fax: (432) 522-2180		
		W.S	W @1.5'	R							
		0E11	004-10 (So	il)							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Pern	iian Basin I	Invironme	ntal Lab, I	L.P.						
BTEX by 8021B			•								
Benzene	ND	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Toluene	0.617	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Ethylbenzene	1.59	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (p/m)	4.64	0.0412	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (0)	1.64	0.0206	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 4-Bromofluorobenzene		75.0 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		92.7 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
General Chemistry Parameters by El	PA / Standard Method	\$									
Chloride	136	1.03	mg/kg dry	1	P0E1203	05/12/20	05/13/20	EPA 300.0			
% Moisture	3.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216			
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M									
C6-C12	630	25.8	mg/kg dry	i	P0E1204	05/12/20	05/13/20	TPH 8015M			
>C12-C28	4650	25.8	mg/kg dry	1	P0E1204	05/12/20	05/13/20	TPH 8015M			
>C28-C35	776	25.8	mg/kg dry	1	P0E1204	05/12/20	05/13/20	TPH 8015M			
Surrogate: 1-Chlorooctane		104 %	70-1	30	P0E1204	05/12/20	05/13/20	TPH 8015M			
Surrogate: o-Terphenyl		114 %	70-1	30	P0E1204	05/12/20	05/13/20	TPH 8015M			
Total Petroleum Hydrocarbon C6-C35	6050	25.8	mg/kg dry	1	[CALC]	05/12/20	05/13/20	calc			

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Page 12 of 34

Taton LPE			Fax: (432) 522-2180								
2901 S. State Hwy 349		Project Num	ber: 700376	.508.01							
Midland TX, 79706		Project Manager: David Adkins									
Le course and the second s		C.	2 @ 1 5 ¹ D								
		-6									
		0.611	004-11 (Soi	il)							
		Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Pern	ian Basin I	Invironmer	ntal Lab, I	L.P.						
BTEX by 8021B											
Benzene	ND	0.0233	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Toluenc	0.919	0.0233	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Ethylbenzene	1.27	0.0233	ing/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (p/m)	4.08	0.0465	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (0)	1.28	0.0233	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		90.1 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 4-Bromofluorobenzene		107 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
General Chemistry Parameters by EF	A / Standard Method	s									
Chloride	178	1.16	mg/kg dry	1	P0E1308	05/13/20	05/13/20	EPA 300.0			
% Moisture	14.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216			
Total Petroleum Hydrocarbons C6-C3	15 by EPA Method 80	15M									
C6-C12	419	29.1	mg/kg dry	1	P0E1206	05/12/20	05/12/20	TPH 8015M			
>C12-C28	4790	29.1	mg/kg dry	1	P0E1206	05/12/20	05/12/20	TPH 8015M			
>C28-C35	840	29.1	ing/kg dry	1	P0E1206	05/12/20	05/12/20	TPH 8015M			
Surrogate: 1-Chloroactane		124 %	70-1.	30	P0E1206	05/12/20	05/12/20	TPH 8015M			
Surrogate: o-Terphenyl		131 %	70-1.	30	P0E1206	05/12/20	05/12/20	TPH 8015M	<i>S-GC</i>		
Total Petroleum Hydrocarbon C6-C35	6050	29.1	mg/kg dry	1	[CALC]	05/12/20	05/12/20	calc			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706	Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins								Fax: (432) 522-2180		
			8								
		<b>S</b> -7	3 @ 1.5'R								
		0E11	004-12 (Soi	l)							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Perr	nian Basin I	Environmer	tal Lab, I	L.P.						
BTEX by 8021B				<b>V</b> =							
Benzene	0.0238	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Toluenc	1.18	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Ethylbenzene	1.42	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (p/m)	3.95	0.0417	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Xylene (o)	1.26	0.0208	mg/kg dry	20	P0E1104	05/11/20	05/11/20	EPA 8021B			
Storrogate: 4-Bromofluorobenzene		107 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		88.3 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B			
General Chemistry Parameters by E	PA / Standard Method	ls									
Chloride	54.1	1.04	mg/kg dry	1	P0E1308	05/13/20	05/13/20	EPA 300,0			
% Moisture	4.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216			
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M									
C6-C12	629	130	mg/kg dry	5	P0E1206	05/12/20	05/13/20	TPH 8015M			
>C12-C28	6350	130	mg/kg dry	5	P0E1206	05/12/20	05/13/20	TPH 8015M			
>C28-C35	1100	130	mg/kg đry	5	P0E1206	05/12/20	05/13/20	TPH 8015M			
Surrogate: 1-Chlorooctane		125 %	70-1.	30	P0E1206	05/12/20	05/13/20	TPH 8015M			
Surrogate: o-Terphenyl		129 %	70-1.	30	P0E1206	05/12/20	05/13/20	TPH 8015M			
Total Petroleum Hydrocarbon C6-C35	8090	130	mg/kg dry	5	[CALC]	05/12/20	05/13/20	calc			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 14 of 34

Talon LPE 2901 S. State Hwy 349 Midłand TX, 79706		Project Num Project Mana	Fax: (432) 522-2180						
		S-	4 @ 1.5'R						
		0E11	.004-13 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Melhod	Notes
	Perr	nian Basin I	Environmer	ntal Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg đry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	0.00395	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	0.0140	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	0.0276	0.00211	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (0)	0.0239	0.00105	ing/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		65,4 %	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92,9 %	75-1.	25	<i>P0E1104</i>	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	135	1.05	mg/kg dry	ł	P0E1308	05/13/20	05/13/20	EPA 300.0	
% Moisture	5.0	0,1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	204	26.3	mg/kg dry	1	P0E1206	05/12/20	05/12/20	TPH 8015M	
>C12-C28	3990	26.3	mg/kg dry	I	P0E1206	05/12/20	05/12/20	TPH 8015M	
>C28-C35	686	26.3	mg/kg dry	Ĺ	P0E1206	05/12/20	05/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-1.	30	P0E1206	05/12/20	05/12/20	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-1:	30	P0E1206	05/12/20	05/12/20	TPH 8015M	<i>S-GC</i>
Total Petroleum Hydrocarbon C6-C35	4880	26.3	mg/kg dry	1	[CALC]	05/12/20	05/12/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 15 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Fax: (432) 522-2180							
		S-	5 @ 1.5'R						
·····		0E11	004-14 (Soi	l)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmer	ital Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	0.00129	0,00108	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	0.00851	0.00215	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorohenzene		91.8 %	75-1.	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.6 %	75-1.	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by	EPA / Standard Method	<u>ls</u>		~~~··					
Chloride	961	1,08	mg/kg dry	1	P0E1308	05/13/20	05/13/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA Method 80	15M							
C6-C12	ND	26.9	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C12-C28	751	26.9	ıng/kg dry	F	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C28-C35	172	26.9	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-13	80	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-13	80	P0E1206	05/12/20	05/13/20	TPH 8015M	S- $GC$
Total Petroleum Hydrocarbou	923	26.9	mg/kg dry	1	[CALC]	05/12/20	05/13/20	calc	

C6-C35

Permian Basin Environmental Lab, L.P.

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Page 16 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins							
		N.SV	₩-2 @ 1.5' 004 15 (Sel	R					
		01.11	.004-15 (50)	1)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmer	ital Lab, I	L.P.				
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	L	P0E1104	05/11/20	05/11/20	EPA 8021B	
Toluene	0.00231	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Ethylbenzene	0.00134	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (p/m)	0.0121	0.00213	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Xylene (0)	0.00480	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.1%	75-1	25	P0E1104	05/11/20	05/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.2 %	75-1.	25	<i>P0E1104</i>	05/11/20	05/11/20	EPA 8021B	
General Chemistry Parameters by I	EPA / Standard Method	s							
Chloride	55,0	1.05	mg/kg dry	1	P0E1308	05/13/20	05/13/20	EPA 300.0	
% Moisture	5.0	0.1	%	ł	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 80	15M							
C6-C12	31.2	26.3	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C12-C28	440	26.3	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C28-C35	108	26.3	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-1.	30	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-12	30	P0E1206	05/12/20	05/13/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	580	26.3	mg/kg dry	1	[CALC]	05/12/20	05/13/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 17 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706			Fax: (432) 522-2180						
L		S.SV	V-2 @ 1.5'	R					
		0E11	004-16 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Ргерягес	Analyzed	Method	Notes
	Peri	mian Basin I	Environnei	ntal Lab,	L.P.				
BTEX by 8021B	· •••••••								
Benzene	ND	0.00104	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Tolucne	0.0457	0.00104	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Efhylbenzene	0.0607	0.00104	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Xylenc (p/m)	0.157	0.00208	mg/kg đry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Xylene (0)	0.0575	0.00104	mg/kg dry	i	P0E1104	05/11/20	05/12/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P0E1104	05/11/20	05/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		65.0 %	75-125		P0E1104	05/11/20	05/12/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ds							
Chloride	1820	5.21	mg/kg dry	5	P0E1308	05/13/20	05/13/20	EPA 300.0	
% Moisture	4.0	0,1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	) <u>15M</u>							
C6-C12	423	130	mg/kg dry	5	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C12-C28	6850	130	mg/kg dry	5	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C28-C35	1340	130	mg/kg dry	5	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		128 %	70-1	30	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: a-Terphenyl		124 %	70-1	30	P0E1206	05/12/20	05/13/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8620	130	mg/kg dry	5	[CALC]	05/12/20	05/13/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 18 of 34

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706			Fax: (432) 5	22-2180					
		E.SV 0E11	V-2 @ 1.5' .004-17 (Soi	R 1)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
,	Per	mian Basin I	Environmen	ital Lab, 1	L.P.				
RTEX by 8021R									
Benzene	ND	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Toluene	0.00544	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Ethylbenzene	0.0102	0.00105	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Xylene (p/m)	0.0304	0.00211	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Xylene (0)	0.0135	0.00105	mg/kg dry	L	P0E1104	05/11/20	05/12/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-12	25	POETIO4	05/11/20	05/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.3 %	75-125		<i>P0E1104</i>	05/11/20	05/12/20	EPA 8021B	
General Chemistry Parameters by I	EPA / Standard Metho	ls							
Chloride	761	1.05	mg/kg dry	1	P0E1308	05/13/20	05/13/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 80	15M				<u> </u>			
C6-C12	38.1	26.3	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C12-C28	1470	26.3	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C28-C35	345	26.3	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-13	30	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-13	80	P0E1206	05/12/20	05/13/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1850	26.3	mg/kg dry	1	[CALC]	05/12/20	05/13/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 19 of 34

Talon LPE			Fax: (432) 522-2180						
2901 S. State Hwy 349		Project Num	ber: 700376	.508.01					
Midland TX, 79706		Project Mana	ger: David A	Adkins					
003/00		W SY	X-2@15	'R					
		AE11	00d-18 (Soi	а 1)					
			001 10 (50					·	
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	uian Basin I	Environmer	ntal Lab, 1	L.P.				
BTEX by 8021B						1411/0-11			
Benzene	ND	0.00106	ing/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Toluene	0.00227	0.00106	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Ethylbenzenc	0.00556	0.00106	mg/kg dry	F	P0E1104	05/11/20	05/12/20	EPA 8021B	
Xylene (p/m)	0.0308	0.00213	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Xylene (o)	0.0159	0.00106	mg/kg dry	1	P0E1104	05/11/20	05/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %	75-1	25	P0E1104	05/11/20	05/12/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-1	25	P0E1104	05/11/20	05/12/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	355	1.06	mg/kg dry	3	P0E1308	05/13/20	05/13/20	EPA 300.0	
% Moisture	6.0	0,1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M			<u> </u>				
C6-C12	68,2	26.6	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C12-C28	1560	26.6	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
>C28-C35	294	26.6	mg/kg dry	1	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-1	30	P0E1206	05/12/20	05/13/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-1	30	P0E1206	03/12/20	05/13/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1930	26.6	mg/kg dry	L	[CALC]	05/12/20	05/13/20	calc	

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 20 of 34

#### Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

# BTEX by 8021B - Quality Control

#### Permian Basin Environmental Lab, L.P.

	Decult	Reporting	Tinita	Spike	Source	949 EC	%REC	ada	RPD Linuit	Notes
Analyte	Kesult	Limi	Units	Leves	Resurt	76KEC.	1.1(1)(5		Linut	mores
Batch P0E1104 - General Preparation (	GC)	6-8X-1			·····					
Blank (P0E1104-BLK1)				Prepared &	à Analyzed:	05/11/20				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	u							
Ethylbenzone	ND	0,00100	0							
Xylene (p/m)	ND	0,00200	U.							
Xylenc (o)	ND	00100.0	u							
Surrogate: 4-Bromofluorobenzene	0.107		н	0,120		88.9	75-125			
Surrogate: 1,4-Difluorobenzene	0,111		n	0.120		92.3	75-125			
LCS (P0E1104-BS1)				Prepared &	Analyzed:	05/11/20				
Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130			
Toluene	0.104	0.00100	17	0.100		104	70-130			
Ethylbenzene	0.107	0.00100	a	0.100		107	70-130			
Xylene (p/m)	0.220	0.00200	u	0,200		110	70-130			
Xylene (0)	0.106	0.00100	ы	0.100		106	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		μ	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0,120		91.7	75-125			
LCS Dup (P0E1104-BSD1)				Prepared &	Analyzed:	05/11/20				
Велиене	0,107	0,00100	mg/kg wet	0.100		107	70-130	2.52	20	
Toluene	0.108	0,00100	19	0.100		108	70-130	4.12	20	
Ethylbenzene	0.111	0.00100	17	6.100		111	70-130	3.56	20	
Xylene (p/m)	0.226	0.00200	u	0.200		113	70-130	2.83	20	
Xylene (o)	0.112	0.00100	"	0,100		112	70-130	5.67	20	
Surrogate: 4-Bromofluorobenzene	0.109		н	0.120		90.7	75-125			
Surrogate: 1,4-Difluorobenzene	0,115		"	0.120		96.1	75-125			
Calibration Blank (P0E1104-CCB1)				Prepared &	: Analyzed;	05/11/20				
Benzene	0,00		mg/kg wet							
Tolucne	0.950		te							
Ethylbenzene	0.00		ŧł							
Xylene (p/m)	0.440		11							
Xylene (o)	0.00		U							
Surrogale: 1,4-Difluorobenzene	0.112		Ħ	0.120		93.I	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		п	0.120		91.0	75-125			

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Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

#### BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

	I CI II	11411 (0480)	I DAVROX			•				
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0E1104 - General Preparation (GC)										
Calibration Diank (POP1104 CCP2)		<u> </u>		Prepared &	Analyzed:	05/11/20				
Benzene	0.00		ing/kg wet							
Toluene	1.29		1)							
Ethylhenzene	0,590		н							
Xvlene (p/m)	1,25		u							
Xylene (o)	0,360		н							
Surrogate: 1.4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Calibration Check (PAE1104-CCV1)				Prepared &	Analyzed:	05/11/20				
Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluenc	0.102	0.00100		0,100		102	80-120			
Ethylbenzene	0,103	0.00100	Ð	0.100		103	80-120			
Xylene (p/m)	0.214	0.00200	1)	0.200		107	80-120			
Xylene (o)	0.106	0,00100	ч	0.100		106	80-120			
Surrogate: 4-Bromofluorohenzene	0.111		"	0,120		92.7	75-125			
Surrogate: 1,4-Diffuorobenzene	0,115		"	0.120		95.8	75-125			
Calibration Check (P0E1104-CCV2)				Prepared &	: Analyzed:	05/11/20				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0,103	0.00100	11	0,100		103	80-120			
Ethylbenzene	0,105	0.00100	D.	0.100		105	80-120			
Xylene (p/m)	0,209	0,00200	в	0.200		105	80-120			
Xylene (0)	0,109	0.00100	H	0.100		109	80-120			
Surrogale: 1,4-Difluorobenzene	0.115		u	0,120		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		92.9	75-125			
Calibration Check (P0E1104-CCV3)				Prepared: 0	5/11/20 An	alyzed: 05/	/12/20			
Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.103	0.00100	0	0.100		103	80-120			
Ethylbenzene	0.106	0.00100	0	0.100		106	80-120			
Xylene (p/m)	0.208	0.00200	н	D.200		104	80-120			
Xylenc (o)	0,109	0.00100	17	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	75-125			
Surrogate: 4-Riomofluorohenzene	0.111		"	0.120		92.7	75-125			

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Project: Plains Matador Florence St. 23 #20214 Project Number: 700376.508.01 Project Manager: David Adkins

## BTEX by 8021B - Quality Control

## Permian Basin Environmental Lab, L.P.

								ALC: NOT A CONTRACT OF A CONTR		
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0E1104 - General Preparation (GC)										
Matrix Spike (P0E1104-MS1)	Sou	rce: 0E11004	-18	Prepared:	05/11/20 Ai	halyzed: 05	/12/20			
Benzene	0.0784	0.00106	mg/kg dry	0,106	ND	73,7	80-120			
Toluene	0.0645	0.00106	и	0,106	0.00227	58,5	80-120			
Ethylbenzenc	0.0554	0.00106	ч	0.106	0.00556	46,9	80-120			
Xvlene (p/m)	0.110	0.00213	н	0.213	0.0308	37.5	80-120			
Xylenc (o)	0.0525	0.00106	н	0.106	0.0159	34.4	80-120			
Surrogate: 4-Bromofluorohenzene	0.123		"	0.128		96.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		u.	0,128		98.9	75-125			
Matrix Spike Dup (P0E1104-MSD1)	Sou	rce: 0E11004	-18	Prepared:	05/11/20 Ar	alyzed: 05	/12/20			
Benzene	0.0843	0.00106	mg/kg dry	0.106	ND	79,3	80-120	7.23	20	
Тојџеле	0,0681	0.00106	u	0.106	0.00227	61.9	80-120	5,58	20	
Ethylbenzene	0.0579	0.00106	ц	0.106	0.00556	49.2	80-120	4.77	20	
Xylene (p/m)	0.109	0.00213	5	0.213	0.0308	36,9	80-120	1.47	20	
Xylene (o)	0.0705	0.00106	н	0.106	0.0159	51.3	80-120	39.4	20	
Surrogate: 1,4-Difluorobenzene	0.125		11	0.128		97.7	75-125			
Surmate: 4-Bromolluorobenzene	0.119		"	0.128		92.9	75-125			

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#### Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

# General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

	****	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E1201 ~ *** DEFAULT PREP ***										
Blank (P0E1201-BLK1)	_			Prepared &	k Analyzed:	05/12/20				
% Moisture	ND	0.1	%							
Duplicate (P0E1201-DUP1)	Source: 0E11004-14			Prepared &	Analyzed:	05/12/20				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (POE1201-DUP2)	Source: 0E11004-18			Prepared &	Analyzed:	05/12/20				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Batch P0E1203 - *** DEFAULT PREP ***										
Blank (P0E1203-BLK1)				Prepared &	Analyzed:	05/12/20				
Chloride	ND	0.100	mg/kg wet							
LCS (P0E1203-BS1)				Prepared &	Analyzed:	05/12/20				
Chloride	398	1.00	mg/kg wet	400		99,5	80-120			
LCS Dup (P0E1203-BSD1)				Prepared &	z Analyzed:	05/12/20				
Chloride	402	1.00	mg/kg wet	400		100	80-120	0.960	20	
Calibration Blank (P0E1203-CCB1)				Prepared &	: Analyzed:	05/12/20				
Chloride	0.00		mg/kg wet							
Calibration Blank (P0E1203-CCB2)	-			Prepared &	: Analyzed:	05/12/20				
Chloride	0,00		mg/kg wet							
Calibration Check (P0E1203-CCV1)				Prepared &	Analyzed:	05/12/20		<b></b> .		
Chloride	20.2		mg/kg	20.0		101	0-200			

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#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

	Develo	Reporting	11.11.	Spike	Source	0(1)170	%REC	0.00	RPD	<b>N</b> .
Anatyte	Kesult	Limit	Units	Level	Icesult	%REC	Linus	RPD	Limit	Notes
Batch P0E1203 - *** DEFAULT PREP ***										
Calibration Check (P0E1203-CCV2)				Prepared &	& Analyzed:	05/12/20	-			
Chloride	20,2		mg/kg	20,0		101	0-200			
Calibration Check (P0E1203-CCV3)				Prepared:	05/12/20 Ai	nalyzed: 05	/13/20			
Chloride	20,3		mg/kg	20.0		102	0-200			
Matrix Spike (P0E1203-MS1)	Source: 0E08009-22		Prepared 8	è Analyzed:	05/12/20					
Chloride	12200	29.4	mg/kg dry	2940	8660	121	80-120			QM-05
Matrix Spike (P0E1203-MS2)	Source: 0E11004-01			Prepared &	k Analyzed:	05/12/20				
Chloride	576	1.09	mg/kg dry	543	26,5	101	80-120			· · · · · · · · · · · · · · · · · · ·
Matrix Spike Dup (P0E1203-MSD1)	Sou	urce: 0E08009	-22	Prepared &	ż Analyzed;	05/12/20				
Chloride	12100	29,4	mg/kg dry	2940	8660	117	80-120	0.895	20	
Matrix Spike Dup (P0E1203-MSD2)	Sou	rce: 0E11004	-01	Prepared &	k Analyzed:	05/12/20				
Chloride	533	1,09	mg/kg dry	543	26,5	93.2	80-120	7.76	20	
Batch POE1308 - *** DEFAULT PREP ***										
Blank (P0E1308-BLK1)				Prepared &	Analyzed:	05/13/20				
Chloride	ND	0.100	mg/kg wet							
LCS (P0E1308-BS1)	F			Prepared & Analyzed: 05/13/20						
Chloride	401	1,00	mg/kg wet	400		100	80-120			
LCS Dup (P0E1308-BSD1)				Prepared &	Analyzed:	05/13/20				
Chloride	402	1.00	malka wet	400		100	80-120	0.214	20	

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# General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

							A(1)7(3)		DBD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Linit	Notes
						· · ·				
Batch POE1308 - *** DEFAULT PREP ***										
Calibration Blank (P0E1308-CCB1)	Prepared & Analyzed: 05/13/20									
Chloride	0.00		mg/kg wet							
Calibration Blank (P0E1308-CCB2)				Prepared &	k Analyzed;	05/13/20	,			
Chloride	0.00		mg/kg wet							
Calibration Check (P0E1308-CCV1)				Prepared &	ż Analyzed:	05/13/20				
Chloride	20,1		mg/kg	20.0		101	0-200			
Calibration Check (P0E1308-CCV2)				Prepared &	k Analyzed:	05/13/20				
Chloride	20,2		mg/kg	20.0		101	0-200			
Calibration Check (P0E1308-CCV3)				Prepared &	k Analyzed:	05/13/20				
Chloride	20.6		mg/kg	20.0		103	0-200			
Matrix Spike (P0E1308-MS1)	Sour	ce: 0E11004	-16	Prepared & Analyzed: 05/13/20						
Chloride	2370	5,21	mg/kg dry	521	1820	106	80-120			
Matrix Spike (P0E1308-MS2)	Sour	ce: 0E12007	-01	Prepared &	Analyzed:	05/13/20				
Chloride	3210	10.3	mg/kg dry	1030	2080	109	80-120			
Matrix Spike Dup (P0E1308-MSD1)	Source: 0E11004-16			Prepared & Analyzed: 05/13/20						
Chloride	2360	5,21	mg/kg dry	521	1820	104	80-120	0.408	20	
Matrix Spike Dup (P0E1308-MSD2)	Source: 0E12007-01 Pr		Prepared & Analyzed; 05/13/20							
Chloride	3190	10.3	mg/kg dry	1030	2080	107	80-120	0.713	20	

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Page 26 of 34

#### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

#### Permian Basin Environmental Lab, L.P.

}		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Límit	Notes
Batch P0E1204 - TX 1005										
Blank (P0E1204-BLK1)				Prepared &	Analyzed:	05/12/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25,0	ų							
>C28-C35	ND	25.0	н							
Surrogate: 1-Chlorooctane	98.2		n	100		98.2	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			
I.CS (P0E1204-BS1)				Prepared &	: Analyzed:	05/12/20				
C6-C12	1050	25.0	mg/kg wet	1000	•	105	75-125		·····	
>C12-C28	1130	25.0	W	1000		113	75-125			
Surrogate: 1-Chlorooctane	113		н	100		113	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.5	70-130			
LCS Dup (P0E1204-BSD1)				Prepared &	Analyzed:	05/12/20				
C6-C12	994	25.0	mg/kg wet	1000		99.4	75-125	5.16	20	
>C12-C28	1090	25.0	n	1000		109	75-125	3.37	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130		··	
Surrogate: o-Terphenyl	-14.2		"	50.0		88.3	70-130			
Calibration Blank (P0E1204-CCB1)				Prepared &	Analyzed:	05/12/20				
C6-C12	4.73		mg/kg wet							
>C12-C28	15.6		Þ							
Surrogate: 1-Chlorooctane	99.8		n	100	•	99.8	70-130			
Surrogate: o-Terphenyl	51.7		n	50.0		103	70-130			
Calibration Blank (P0E1204-CCB2)	Prepared & Analyzed: 05/12/20									
C6-C12	8.47		mg/kg wet							
>C12-C28	14.3		D							
Surrogate: 1-Chlorooctane	103		n	100		103	70-130			
Surrogate: o-Terphenyl	51.4		n	50.0		103	70-130			

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# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting	<u>,</u> ,	Snike	Source		%REC				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch P0E1204 - TX 1005											
Calibration Check (P0E1204-CCV1)				Prepared &	2 Analyzed:	05/12/20					
C6-C12	533	25.0	mg/kg wet	500		107	85-115				
>C12-C28	470	25.0	n	500		94.1	85-115				
Surrogate: 1-Chloroactane	106		"	100		106	70-130				
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130				
Calibration Check (P0E1204-CCV2)	Prepared & Analyzed; 05/12/20										
C6-C12	549	25.0	mg/kg wet	500		110	85-115				
>C12-C28	562	25.0	м	500		112	85-115				
Surrogate: 1-Chlorooctane	10-1		"	100		104	70-130				
Surrogate: o-Terphenyl	-48.1		"	50.0		96.1	70-130				
Calibration Check (P0E1204-CCV3)		Prepared: 05/12/20 Analyzed: 05/13/20									
C6-C12	537	25.0	mg/kg wet	500		107	85-115				
>C12-C28	538	25.0	"	500		108	85-115				
Surrogate: 1-Chlorooctane	102		u	100		102	70-130				
Surrogate: o-Terphenyl	46.4		v	50.0		92.9	70-130				
Matrix Spike (P0E1204-MS1)	Sou	rce: 0E11004	-01	Prepared: 0	5/12/20 An	nalyzed: 05	/13/20				
C6-C12	1170	27.2	mg/kg dry	1090	47.2	103	75-125				
>C12-C28	1200	27.2	"	1090	351	78,5	75-125				
Surrogate: 1-Chlorooctane	131		H	109		120	70-130				
Surrogate: o-Terphenyl	61.2		IJ	54.3		113	70-130				
Matrix Spike Dup (P0E1204-MSD1)	Sour	rce: 0E11004	-01	Prepared: 0	5/12/20 An	alyzed: 05	/13/20				
C6-C12	1110 27.2 mg/kg dry							5.42	20		
>C12-C28	1240	27,2	11	1090	351	81.5	75-125	3,85	20		
Surrogate: 1-Chlorooctane	135		"	109		124	70-130				
Surrogate: o-Terphenyl	63.7		u	54.3		117	70-130				

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Page 28 of 34

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E1206 - TX 1005	F. 60 874-14 000									
Blank (P0E1206-BLK1)				Prepared &	z Analyzed:	05/12/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25,0	"							
>C28-C35	ND	25.0	0							
Surrogate: 1-Chlorooctane	117		n	100		117	70-130			
Surrogate: o-Terphenyl	63.5		"	50.0		127	70-130			
LCS (P0E1206-BS1)				Prepared &	Analyzed:	05/12/20				
C6-C12	1150	25.0	mg/kg wet	1000	.,	115	75-125			
>C12-C28	1190	25.0		1000		119	75-125			
Surrogate: 1-Chlorooctane	119		11	100		119	70-130			
Surrogate: o-Terphenyl	58.4		ν	50.0		117	70-130			
LCS Dup (P0E1206-BSD1)				Prepared &	: Analyzed:	05/12/20				
C6-C12	1180	25,0	mg/kg wet	1000		118	75-125	2,22	20	
>C12-C28	1230	25,0	н	1000		123	75-125	3.37	20	
Surrogate: 1-Chlorooctane	127		p	100		127	70-130			
Surrogate: o-Terphenyl	56.0		и	50.0		112	70-130			
Calibration Blank (P0E1206-CCB1)				Prepared &	Analyzed:	05/12/20				
C6-C12	16.6		mg/kg wet							
>C12-C28	10,7		u							
Surrogate: 1-Chlorooctane	113		'n	100		113	70-130			
Surrogate: o-Terphenyl	59.9		u	50.0		120	70-130			
Calibration Blank (P0E1206-CCB2)				Prepared: 0	5/12/20 An	alyzed: 05	/13/20			
C6-C12	20.0		mg/kg wet							
>C12-C28	19.7		"							
Surrogate: 1-Chlorooctane	108		W	100		108	70-130			
Surrogate: o-Terphenyl	57.1		n	50.0		114	70-130			

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#### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

## Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes				
Batch P0E1206 - TX 1005		wood,												
Calibration Check (P0E1206-CCV1)	Prepared & Analyzed: 05/12/20													
C6-C12	525	25.0	mg/kg wei	500		105	85-115							
>C12-C28	534	25.0	71	500		107	85-115							
Surrogate: 1-Chlorooctane	107		н	100		107	70-130							
Surrogate: o-Terphenyl	54.8		'n	50.0		110	70-130							
Calibration Check (P0E1206-CCV2)				Prepared: (	)5/12/20 Ai	nalyzed: 05	/13/20							
C6-C12	513	25,0	mg/kg wet	500		103	85-115							
>C12-C28	556	25.0	U.	500		111	85-115							
Surrogate: 1-Chlorooctane	105		ti	100		105	70-130							
Surrogate: o-Terphenyl	52.8		и	50,0		106	70-130							
Calibration Check (P0E1206-CCV3)				Prepared: 0	)5/12/20 At	nalyzed: 05	/13/20							
C6-C12	537	25.0	mg/kg wet	500		107	85-115							
>C12-C28	548	25.0	11	500		110	85-115							
Surragate: 1-Chlorooctane	109		н	100		109	70-130							
Surrogate: o-Terphenyl	55.3		11	50.0		Ш	70-130							

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

2901 S. St	tate Hwy 349	Project Number:	700376.508.01								
Midland T	TX, 79706	Project Manager:	David Adkins								
	Notes and Definitions										
S-GC	Surrogate recovery outside of control limits. T	he data was accepted bas	ed on valid recovery of the remaining surrogate.								
ROI	Received on Ice										
QM-05	The spike recovery was outside acceptance lim within acceptance limits showing that the labor	its for the MS and/or MS ratory is in control and th	D due to matrix interference. The LCS and/or LCSD were e data is acceptable.								
BULK	Samples received in Bulk soil containers										
DET	Analyte DETECTED										
ND	Analyte NOT DETECTED at or above the reporting	limit									
NR	Not Reported										
dry	Sample results reported on a dry weight basis										
RPD	Relative Percent Difference										
LCS	Laboratory Control Spike										
MS	Matrix Spike										

Project: Plains Matador Florence St. 23 #202H

Report Approved By:

Duplicate

Dup

Bun Burron

5/14/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Date:

Fax: (432) 522-2180

Talon LPE

Page 31 of 34

Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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	CHAIN OF CUSTODY I		U. ADKINS	TALON LPE	408 W. TEXAS AVE	ARTESIA NM 88210	575-7410-8768	NU CU-			ដំណើរ ប្រទាំរក ក្រុម ប្រទាំរប្រ ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រុម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក្រាម ក ក ក្រាម ក្រាម ក្រាម ក្រាម ក្ពាម ក្ពាម ក្រាម ក្រាម ក្រម ក ក្រម ក្ព ក ក ក្រម ក្រម ក ក្រម ក្រម ក ក្រម ក្រម ក				-	• • • • • • • • • • • • • • • • • • •	1.5 8	158	1.5.8	1.52	: :	COVES RT PLAINS ALL ANGRICAN	5/11/20 13:47	Date	Date . Time	
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Page 34 of 34 TAT brabnal2 #FEGT  $\sim$ STATES -同語が Lone-Star 2111 ST (800 - 201 edule) 24, 46, 73 lins 14 · · · Project Name: MATADOR FLOKENCE St. 33 by Sampler/Client Rep. ? by Counier UPS DFIL Feele Jamperature Upon, Receipt Reconned: 5 00 °C Factor (C ž Phone: 432-686-7235 🖸 TRRP Labels on container(s) Custody seals on container(s) Custody seals on container(s) Custodyseals on container(s) Sample Hand Derivered Sample contained integers Project # <u>100310. 508.01</u> VOCs Free of Headspace? 30 Project Loc: <u>CEA</u> COUNTY Laboratory Comments: PO # 2020 - 043 Analvze □ Standard TOTAL S Ň F108 H97 いして LEX 60518 2030 of BTEX 6260 Report Format: Anions (CJ) SO4, Alkalin1(y) > DAVID ADIENS LAD RESULTS OS WELLAS 5.4 Time 000 je Li 9001 X 8001 XT :Hd. Jahlo eldeto9 noviatio 5015 Sour pilos •Mt MCOLLET CtaLOWLFE.CON dadens () trence percent pfiphie JANSID UP AND MERCE Date Permian Basín Environmental Lab, LP Date ß Other ( Specify) anoM Ĭ *O^zSzsh HOBN 1400 Rankin HWY Midland, Texas 79701 ; 'os*H ÷ HCI ^eONH CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST eoj > Total #, of Container MYSELF hered Fillered у С Sudio e-mail: Fax No: 2:30PT 1:35 27 1: 25 Pr . 30 PM 1.15 0 1: 20 % 1:25 P 11 40PM belqms2 emiT BUU TO AMRER GROVES AT PLAINS ALL AMERICAN PARCLINE. elinquistred by: Date 1 Time Received by: 5-8-7010 5.8-2020 5-7-2026 5-7-2020 Received by: Received by Date Sampled 88210 1,5'2 ň <u>15</u>R 5.8 *v* 10-1.5 R 1.5 R 15 2 riting Depth 3:47 Time inte Billio Company Address: 408 W. TEXAS AVE liqed prinnipeB N N 575-746 8768 Cla 5/11/20 Date Date Project Manager: D. ADKINS TALON LPE ARTESIA Sampler Signature: NLU FIELD CODE Company Name Telephone No: ORDER# 0E11004 City/State/Zip: E-5W- 2 N.5w-3 5-5-4-2  $\mathcal{C}$ Special Instructions: -125 51 S, 3 S-3 τ J 5 elinquished by: quished by (labiuse only) (Vino seu del) # EA-

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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



# Analytical Report

# Prepared for:

David Adkins Talon LPE 2901 S. State Hwy 349 Midland, TX 79706

Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Location: Lea County, TX

Lab Order Number: 0E11003



NELAP/TCEQ # T104704516-18-9

Report Date: 05/29/20
Talon LPE 2901 S. State Hwy 349 Midland TX, 79706 Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile Composite @ 1.5' R	0E11003-01	Soil	05/08/20 13:00	05-11-2020 13:47

RCI, TCLP Benzene, and TCLP 8 RCRA Metals analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here: https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

NORM analysis was subcontracted to ARS International, Port Allen LA. Their report is attached to the email rather than the report due to an incompatibility with their PDF format.

#### Stockpile Composite @ 1.5' R 0E11003-01 (Soil)

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General Chemistry Parameters by EPA	Standard Metho	ds							
Chloride	621	1.04	mg/kg dry	1	P0E1203	05/12/20	05/12/20	EPA 300.0	
Reactive Cyanide	ND	100	mg/kg	1	P0E2001	05/18/20	05/20/20	SW846 9010B	SUB-13
Ignitability by Flashpoint	> 212		°F	1	P0E2001	05/16/20	05/20/20	ASTM D93-80	SUB-13
рН	8.14	0.10	pH Units	1	P0E2001	05/03/20	05/20/20	EPA 9045B	SUB-13
% Moisture	4.0	0.1	%	1	P0E1201	05/12/20	05/12/20	ASTM D2216	
Reactive Sulfide	ND	100	mg/kg	1	P0E2001	05/18/20	05/20/20	SW846 9030B	SUB-13
Naturally Occuring Radioactive Materia	l (N.O.R.M.)								
Radium 226	ND	1.57	pCi/g	1	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
Radium 228	0.37	0.30	pCi/g	1	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
Lead 210	ND	1.19	pCi/g	1	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
Total Gamma	10.5		pCi/g	t	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
Lead 210 Analysis Error	1.22		+/- 2 Sigma	1	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
Radium 226 Analysis Error	1.28		+/- 2 Sigma	1	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
Radium 228 Analysis Error	0.38		+/- 2 Sigma	I	P0E2903	05/26/20	05/26/20	EPA 901.1	SUB12
TCLP Metals 1311 by EPA / Standard M	ethods								
Mercury	ND	0.000200	mg/L	1	P0E2001	05/13/20	05/14/20	EPA 7470A	SUB-13
Chromium	ND	0.0500	mg/L	1	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	ι	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	l	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13
Barium	1.54	0.200	mg/L	1	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P0E2001	05/13/20	05/13/20	EPA 6020A	SUB-13

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Free Liquid

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706	F	Fax: (432) 522-2180							
	S	tockpile Co 0E110	omposit 903-91 (S	e @ 1.5' R oil)	1				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironm	ental Lab,	L.P.				
TCLP Volatile Organic Compound	ls by EPA Method 1311/82	260B							
Benzene	ND	100	ug/l	1	P0E2001	05/13/20	05/14/20	EPA 8260B	SUB-13
Physical Parameters by APHA/AS	TM/EPA Methods								
Free Liquid	PASS		N/A	1	P0E2106	05/21/20	05/21/20	EPA 9095	

PASS

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E1201 - *** DEFAULT PREP ***										
Blank (P0E1201-BLK1)				Prepared &	Analyzed:	05/12/20				
% Moisture	ND	0.1	%							
Duplicate (P0E1201-DUP1)	Sou	ce: 0E11004	-14	Prepared &	Analyzed:	05/12/20				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0E1201-DUP2)	Sou	ce: 0E11004	-18	Prepared &	Analyzed:	05/12/20				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Batch P0E1203 - *** DEFAULT PREP ***										
Blank (P0E1203-BLK1)				Prepared &	Analyzed:	05/12/20				
Chloride	ND	0.100	mg/kg wet							
LCS (P0E1203-BS1)				Prepared &	Analyzed:	05/12/20				
Chloride	398	1.00	mg/kg wet	400		99.5	80-120			
LCS Dup (P0E1203-BSD1)				Prepared &	Analyzed:	05/12/20				
Chloride	402	1.00	mg/kg wet	400		100	80-120	0.960	20	
Calibration Blank (P0E1203-CCB1)				Prepared &	Analyzed:	05/12/20				
Chloride	0.00		mg/kg wet							
Calibration Blank (P0E1203-CCB2)				Prepared &	Analyzed:	05/12/20				
Chloride	0.00		mg/kg wet							
Calibration Check (P0E1203-CCV1)				Prepared &	Analyzed:	05/12/20				
Chloride	20.2		mg/kg	20.0		101	0-200			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab. Project:Plains Matador Florence St. 23 #202HProject Number:700376.508.01Project Manager:David Adkins

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E1203 - *** DEFAULT PREP ***										
Calibration Check (P0E1203-CCV2)				Prepared &	k Analyzed:	05/12/20				
Chloride	20.2		mg/kg	20.0		101	0-200			
Calibration Check (P0E1203-CCV3)				Prepared: (	05/12/20 A	nalyzed: 05	/13/20			
Chloride	20.3		mg/kg	20.0		102	0-200			
Matrix Spike (P0E1203-MS1)	Sou	rce: 0E08009	-22	Prepared 8	2 Analyzed:	05/12/20				
Chloride	12200	29,4	mg/kg dry	2940	8660	121	80-120			QM-05
Matrix Spike (P0E1203-MS2)	Sou	rce: 0E11004	-01	Prepared &	z Analyzed:	05/12/20				
Chloride	576	1.09	mg/kg dry	543	26.5	101	80-120			
Matrix Spike Dup (P0E1203-MSD1)	Sou	rce: 0E08009	-22	Prepared &	Analyzed:	05/12/20				
Chloride	12100	29.4	mg/kg dry	2940	8660	117	80-120	0.895	20	
Matrix Spike Dup (P0E1203-MSD2)	Sou	rce: 0E11004	-01	Prepared &	z Analyzed:	05/12/20				
Chloride	533	1.09	mg/kg dry	543	26.5	93.2	80-120	7.76	20	

Project: Plains Matador Florence St. 23 #202H Project Number: 700376.508.01 Project Manager: David Adkins

#### Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0E2106 - *** DEFAULT PREP ***									• • • • • • • • • • • • • • • • • • •	
Duplicate (P0E2106-DUP1)	Sou	rce: 0E20017-0	01	Prepared &	Analyzed:	05/21/20	<u>.</u>			
Free Liquid	PASS		N/A		0.00				200	

Permian Basin Environmental Lab, L.P.

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#### **Notes and Definitions**

- SUB-13 Subcontract of analyte/analysis to ALS Houston.
- SUB12 Analysis was subcontracted to ARS Port Allen Lousiana.
- ROI Received on Ice
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Bun Barron

Date: 5/29/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project:	Plains Matador Florence St. 23 #202H	Fax: (432) 522-2180
2901 S. State Hwy 349	Project Number:	700376.508.01	
Midland TX, 79706	Project Manager:	David Adkins	

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Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entircty, with written approval of Permian Basin Environmental Lab.

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10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

May 18, 2020

Brent Barron Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland, TX 79706

Work Order: HS20050401

Laboratory Results for: 0E11003

Dear Brent,

ALS Environmental received 1 sample(s) on May 12, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE,LAWAL Andy C. Neir

Page 1 of 20

Date: 18-May-20

Client: Project: Work Order:	Permian Basin Environme 0E11003 HS20050401	ental Lab, LP			SAMPLE SUMM	IARY
Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20050401-01	0E11003-01	Soil		08-May-2020 13:00	12-May-2020 09:05	

Page 2 of 20

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#### ALS Houston, US

Date: 18-May-20

CASE NARRATIVE

Client: Permian Basin Environmental Lab, LP Project: 0E11003 Work Order: HS20050401

#### Work Order Comments

· Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

#### GCMS Volatiles by Method SW8260

#### Batch ID: 153448

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

#### Metals by Method SW7470

#### Batch ID: 153538

. The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

#### Metals by Method SW1311/6020

#### Batch ID: 153504

#### Sample ID: 0E11003-01 (HS20050401-01MSD)

· Barium failed on the MSD but passed on the MS and PDS.

#### WetChemistry by Method SW7.3.4.2

#### Batch ID: R361706

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

#### WetChemistry by Method SW7.3.3.2

#### Batch ID: R361708

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

#### WetChemistry by Method ASTM D92-12b

#### Batch ID: R361665

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

#### WetChemistry by Method SW9045D

#### Batch ID: R361473

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 18-May-20

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
Sample ID:	0E11003-01
Collection Date:	08-May-2020 13:00

#### ANALYTICAL REPORT

WorkOrder:HS20050401 Lab ID:HS20050401-01 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		Method:SW8260	Leache:SW1311 / 13-May-2020	Prep:SW1311 /	13-May-2020	Analyst: PC
Benzene	ND		0.10	mg/L	20	14-May-2020 00:02
Surr: 1,2-Dichloroethane-d4	102		70-126	%REC	20	14-May-2020 00:02
Surr: 4-Bromofluorobenzene	94.6		82-124	%REC	20	14-May-2020 00:02
Surr: Dibromofluoromethane	102		77-123	%REC	20	14-May-2020 00:02
Surr: Toluene-d8	99.5		82-127	%REC	20	14-May-2020 00:02
TCLP METALS BY SW6020A	ħ	lethod:SW1311/6020	Leache:SW1311 / 13-May-2020	Prep:SW3010A	/ 13-May-2020	Analyst: MSC
Arsenic	ND		0.0500	mg/L	1	13-May-2020 21:45
Barium	1.54		0.200	mg/L	1	13-May-2020 21:45
Cadmium	ND		0.0500	mg/L	1	13-May-2020 21:45
Chromium	ND		0.0500	mg/L	1	13-May-2020 21:45
Lead	ND		0.0500	mg/L	1	13-May-2020 21:45
Selenium	ND		0.0500	mg/L	1	13-May-2020 21:45
Silver	ND		0.0500	mg/L	1	13-May-2020 21:45
TCLP MERCURY BY SW7470A		Method:SW7470	Leache;SW1311 / 13-May-2020	Prep:SW74707	14-May-2020	Analyst: FO
Mercury	ND		0.000200	mg/L	1	14-May-2020 16:49
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B	M	ethod:ASTM D92-12b				Analyst: TH
Flash Point	> 212	n	50.0	°F	1	16-May-2020 09:00
REACTIVE CYANIDE		Method:SW7.3.3.2		Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	ND	n	100	mg/Kg	1	18-May-2020 14:30
REACTIVE SULFIDE		Method:SW7.3.4.2				Analyst: KVL
Reactive Sulfide	ND	n	100	mg/Kg	1	18-May-2020 13:30
PH SOIL BY SW9045D		Method:SW9045D				Analyst: JAC
pH	8.14	Н	0.100	pH Units	1	13-May-2020 11:56
Temp Deg C @pH	21.9	Н	C	°C	1	13-May-2020 11:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Page 4 of 20

Weight / Prep Log

# Client:Permian Basin Environmental Lab, LPProject:0E11003WorkOrder:HS20050401

Batch ID: 153445		Start Da	ite: 12 May 20	020 17:00	End Date: 13 May 2020 10:00
Method: TCLP METALS	S EXTRACTION	N BY SW131	1		Prep Code: 1311LM EXT
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20050401-01		100 (grams)	2000 (mL)	20	
Batch ID: 153448		Start Da	ite: 12 May 20	)20 17:00	End Date: 13 May 2020 10:00
Method: TCLP ZHE (VC	OL EXTRACTIO	DN)			Prep Code: 1311ZHE
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20050401-01		25 (g)	500 (mL)	20	
Batch ID: 153460		Start Da	te: 12 May 20	020 17:00	End Date: 13 May 2020 10:00
Method: TCLP MERCU	RY EXTRACTI	ON BY SW1:	311		Prep Code: 1311LHG EXT
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20050401-01		100 (grams)	2000 (mL)	20	
Batch ID: 153504		Start Da	te: 13 May 20	020 12:00	End Date: 13 May 2020 18:00
Method: TCLP LEACHA	TE DIGESTIO	N BY SW301	0A		Prep Code: 3010A_TCLP
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20050401-01		1 (mL)	10 (mL)	10	
Batch ID: 153538		Start Da	te: 14 May 20	20 12:30	End Date: 14 May 2020 14:30
Method: MERCURY TC	LP PREP BY S	W7470A			Prep Code: 1311_HGPR
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20050401-01		10 (mL)	10 (mL)	1	

ALS	Houston.	US
		00

Page 87 of 143

Date: 18-May-20

Client: Project: WorkOrder:	Permian Basin E 0E11003 HS20050401	nvironmental Lab, LP			DATES RE	PORT
Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 153448	(0) Test Nam	e: TCLP VOLATILES			Matrix: Soil	
HS20050401-01	0E11003-01	08 May 2020 13:00	13 May 2020 10:00	13 May 2020 12:15	14 May 2020 00:02	20
Batch ID: 153504	(0) Test Nam	IE : TCLP METALS BY SWE	i020A		Matrix: Soil	
HS20050401-01	0E11003-01	08 May 2020 13:00	13 May 2020 10:00	13 May 2020 12:00	13 May 2020 21:45	1
Batch ID: 153538	(0) Test Nam	IB: TCLP MERCURY BY S	N7470A		Matrix: Soil	
HS20050401-01	0E11003-01	08 May 2020 13:00	13 May 2020 10:00	14 May 2020 12:30	14 May 2020 16:49	1
Batch ID: R36147	′3 ( 0 ) Test Nam	e: PH SOIL BY SW9045D			Matrix: Soil	
HS20050401-01	0E11003-01	08 May 2020 13:00			13 May 2020 11:56	1
Batch ID: R36166	5(0) Test Nam	Ie: FLASH POINT BY CLEV	ELAND OPEN CUP A	ASTM D92-12B	Matrix: Soil	
HS20050401-01	0E11003-01	08 May 2020 13:00			16 May 2020 09:00	1
Batch ID: R36170	6(0) Test Nam	e : REACTIVE SULFIDE			Matrix: Soil	
HS20050401-01	0E11003-01	08 May 2020 13:00			18 May 2020 13:30	1
Batch ID: R36170	8(0) Test Nam	e : REACTIVE CYANIDE			Matrix: Soll	
HS20050401-01	0E11003-01	08 May 2020 13:00			18 May 2020 14:30	1

Page 6 of 20

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

#### QC BATCH REPORT

Batch ID: 15	3504 ( 0 )	Inst	rument:	ICPMS05	М	ethod:	TCLP META	LS BY SW60	20A
MBLK	Sample ID:	MBLKT1-153504		Units	mg/L	An	alysis Date:	13-May-202	0 21:41
Client ID:		R	un ID: ICPM	S05_361475	SeqNo: 5	5583823	PrepDate	13-May-202	0 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Contro Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		ND	0.0500					<u></u>	
Barium		ND	0.200						
Cadmium		ND	0.0500						
Chromium		ND	0.0500						
Lead		ND	0.0500						
Selenium		ND	0.0500		······				
Silver		ND	0.0500						
MBLK	Sample ID:	MBLK-153504		Units:	mg/L	An	alysis Date:	13-May-2020	) 21:38
Client ID:		Ru	in ID; ICPM	S05 361475	- SegNo: 5	583822	PrepDate:	13-May-2020	) DF: 1
Analyte		Result	PQL	- SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		ND	0.00500						
Barium		ND	0.0200						
Cadmium		ND	0.00500						
Chromium	······································	ND	0.00500						
Lead		ND	0.00500						
Selenium		ND	0.00500						
Silver		ND	0.00500						
LCS	Sample ID:	LCS-153504		Units:	mg/L	Ana	alysis Date:	13-May-2020	21:43
Client ID:	-	Ru	n ID: ICPM	S05_361475	SeqNo: 5	583824	PrepDate:	13-May-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.05856	0.00500	0.05	0	117	80 - 120		<u> </u>
Barium		0.05872	0.0200	0.05	0	117	80 - 120		
Cadmium		0.05894	0,00500	0.05	0	118	80 - 120		
Chromium		0.0577	0.00500	0.05	0	115	80 - 120		

Lead

Selenium

0.00500

0.00500

0.05783

0.0547

0.05

0.05

0

0

116

109

80 - 120

80 - 120

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

QC B	ATCH	REP	ORT
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Batch ID:	153504 ( 0 )	Inst	rument: IC	CPMS05	Μ	ethod: 1	ICLP META	LS BY SW60	20A	
LCS	Sample ID:	LCS-153504		Units:	mg/L	Ana	alysis Date:	14-May-2020	) 13:28	
Client ID:		R	In ID: ICPMS	605_361553	SeqNo: !	5584649	PrepDate:	13-May-2020	) DF: '	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD L	≀PD .imit Qual
Silver	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.05067	0.00500	0.05	0	101	80 - 120			
MS	Sample ID:	HS20050401-01MS	5	Units:	mg/L	Ana	alysis Date:	13-May-2020	21:50	
Client ID:	0E11003-01	Ri	In ID: ICPMS	305_361475	SeqNo: 5	5583827	PrepDate:	13-May-2020	DF: *	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RRPD L	PD imit Qual
Arsenic		0.569	0.0500	0.5	0.01362	111	80 ~ 120			
Barium		2.012	0.200	0.5	1.537	95.1	80 - 120			
Cadmium		0.5201	0.0500	0.5	0.0005	104	80 - 120			
Chromium		0.5372	0.0500	0,5	0.00241	107	80 - 120			
Lead		0.5305	0.0500	0.5	0.00194	106	80 - 120			
Selenium		0.5512	0.0500	0.5	0.00322	110	80 - 120			
Silver		0.5275	0.0500	0.5	0.00025	105	80 - 120			
MSD	Sample ID:	HS20050401-01MS	D	Units:	mg/L.	Ana	lysis Date:	13-May-2020	21:53	
Client ID:	0E11003-01	Ru	in ID: ICPMS	05_361475	SeqNo: 5	583828	PrepDate:	13-May-2020	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD Li	PD imit Qual
Arsenic		0.5401	0.0500	0.5	0.01362	105	80 - 120	0.569	5.21	20
Barium		1.711	0.200	0.5	1,537	34.8	80 - 120	2.012	16.2	20 S
Cadmium		0.4926	0.0500	0.5	0.0005	98.4	80 - 120	0.5201	5.44	20
Chromium		0.5206	0.0500	0.5	0.00241	104	80 - 120	0.5372	3.13	20
Lead		0.4986	0.0500	0.5	0.00194	99,3	80 - 120	0.5305	6.2	20
Selenium		0.5268	0.0500	0.5	0.00322	105	80 - 120	0.5512	4.54	20
Silver		0.4952	0.0500	0.5	0.00025	99.0	80 - 120	0.5275	6.32	20

Page	8	of 20	)
LUGU	υ	01 20	,

#### ALS Houston, US

Date: 18-May-20

Client:	Permian Basin Environmental Lab, LP	
Project:	0E11003	QC BATCH REPORT
WorkOrder:	HS20050401	

Batch ID:	153504 ( 0 )	Inst	rument: I	CPMS05	Μ	ethod:	ICLP META	LS BY SW602	20A	
PDS	Sample ID:	HS20050401-01PD	S	Units:	mg/L	Ana	alysis Date:	13-May-2020	21:55	
Client ID:	0E11003-01	R	un ID: ICPM	S05_361475	SeqNo: 8	5583829	PrepDate:	13-May-2020	DF	:1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		1.07	0.0500	1	0.01362	106	75 - 125			
Barium		2.498	0.200	1	1.537	96.1	75 - 125			
Cadmium		1.023	0,0500	1	0.0005	102	75 - 125			
Chromium		1.015	0.0500	1	0.00241	101	75 - 125			
Lead		1.049	0.0500	1	0.00194	105	75 - 125			
Selenium		1.039	0.0500	1	0.00322	104	75 - 125			
Silver		1.018	0.0500	1	0.00025	102	75 - 125			
SD	Sample ID:	HS20050401-01SD		Units:	mg/L	Ana	ilysis Date:	13-May-2020	21:48	
Client ID:	0E11003-01	Ru	In ID: ICPM	S05_361475	SeqNo: 5	583826	PrepDate:	13-May-2020	DF:	5
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic		ND	0.250					0.01362	(	) 10
Barium		1.522	1.00					1.537	0.933	3 10
Cadmium		ND	0.250					0.0005	(	) 10
Chromium		ND	0.250					0.00241	(	) 10
Lead		ND	0.250					0.00194	(	) 10
Selenium	· · · · · · · · · · · · · · · · · · ·	ND	0.250					0.00322	(	) 10
Silver		ND	0.250					0.00025		) 10
			20101.01							

The following samples were analyzed in this batch: HS20050401-01

QC BATCH REPORT

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

Batch ID:	153538 ( 0 )	Instru	ment: }	1G03	Μ	ethod: 1	CLP MERC	URY BY SW	7470A	
MBLK	Sample ID:	MBLKT1-153538		Units:	mg/L	An	alysis Date:	14-May-202	0 16:55	
Client ID:		Run	ID: <b>HG03</b>	_361499	SeqNo:	5585112	PrepDate:	14-May-202	0 DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Q	ual
Mercury		ND	0.000200							
MBLK	Sample ID:	MBLK-153538		Units:	mg/L	Ana	alysis Date:	14-May-202	0 16:46	
Client ID:		Run	ID: HG03	_361499	SeqNo: 8	5585107	PrepDate:	14-May-202	0 DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Q	ual
Mercury		ND	0.000200							
LCS	Sample ID:	LCS-153538		Units:	mg/L	Ana	alysis Date:	14-May-202	0 16:48	
Client ID:		Run	ID: HG03	_361499	SeqNo: 5	585108	PrepDate:	14-May-202	0 DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Q	ual
Mercury		0.00518	0.000200	0.005	0	104	80 - 120			
MS	Sample ID:	HS20050401-01MS		Units:	mg/L	Ana	ilysis Date:	14-May-202	0 16:51	
Client ID:	0E11003-01	Run	ID: HG03	_361499	SeqNo: 5	585110	PrepDate:	14-May-202	0 DF:1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qu	lal
Mercury		0.00524	0.000200	0.005	-0.000013	105	75 - 125			
MSD	Sample ID:	HS20050401-01MSD		Units:	mg/L	Ana	lysis Date:	14-May-2020	0 16:53	
Client ID:	0E11003-01	Run	ID: HG03	_361499	SeqNo: 5	585111	PrepDate:	14-May-2020	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qu	ıal
Mercury		0.00502	0.000200	0.005	-0.000013	101	75 - 125	0.00524	4.29 20	
The followin	g samples were analyze	d in this batch: HS2005	0401-01							

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

QC BATCH	REPORT
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Batch ID: 153448 ( 0 )			strumen	t: ۱	/0A9	Me	ethod: ٦	CLP VOLA	TILES		
MBLK	Sample ID:	MBLK-153448			Units:	ug/L	Ana	Ilysis Date:	13-May-2020	0 23:38	
Client ID:			Run ID:	VOA9	_361566	SeqNo: 5	584804	PrepDate:	13-May-2020	DF:	20
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	F %RPD L	RPD imit Qual
Benzene		ND		100							
Surr: 1,2-Dichloroe	ethane-d4	997.5		100	1000	0	99.7	70 - 130			
Surr: 4-Bromofluoi	robenzene	948.7		100	1000	0	94.9	82 - 115			
Surr: Dibromofluor	romethane	991.1		100	1000	0	99.1	73 - 126			
Surr: Toluene-d8		997.1		100	1000	0	99.7	81 - 120			
LCS	Sample ID:	VLCSW-153448			Units:	ug/L	Ana	lysis Date:	13-May-2020	) 19:10	
Client ID:		1	Run ID:	VOA9	_361566	SeqNo: 5	584800	PrepDate:		DF: 1	1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R RPD L	PD imit Qual
Benzene		20		5.0	20	0	100.0	74 - 120			
Surr: 1,2-Dichloroe	ethane-d4	48.49		5.0	50	0	97.0	70 - 130			

Surr: 1,2-Dichloroethane-d4	48.49	5.0	50	0	97.0	70 - 130	
Surr: 4-Bromofluorobenzene	49.74	5.0	50	0	99.5	82 - 115	
Surr: Dibromofluoromethane	48.37	5.0	50	0	96.7	73 - 126	
Surr: Toluene-d8	49.91	5.0	50	0	99.8	81 - 120	

MS	Sample ID:	HS20050406-01MS		Units:	ug/L	Ana	alysis Date:	13-May-202	0 20:47
Client ID:		Run II	D: VOA9	_361566	SeqNo: 5	584803	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzene		21.34	5.0	20	0	107	70 - 127		
Surr: 1,2-Dichloroel	thane-d4	48.83	5.0	50	0	97.7	70 - 126		
Surr: 4-Bromofluoro	benzene	49.88	5.0	50	0	99.8	82 - 124		
Surr: Dibromofluoro	omethane	49.68	5.0	50	0	99.4	77 - 123		
Surr: Toluene-d8		50.39	5.0	50	0	101	82 - 127		
The following sample:	s were analyze	d in this batch: HS200504	01-01						

Client:	Permian Basin Environmental Lab, LP	
Project:	0E11003	QC BATCH REPORT
WorkOrder:	HS20050401	

	Sample ID:	HS20050325-01DUP	nent	Units:	pH Units	An:	alvsis Date:	13-May-2020	0 11:56
Client ID:	oumpie te.	Run	ID: WetC	hem_HS_3614	173 SeqNo: 8	5582949	PrepDate:	···.,	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
рН		5.95	0.100					6.05	1.67 10
Temp Deg C @pH		21.9	0					21.8	0.458 10
The following sample	es were analyze	ed in this batch: HS20050	)401-01						

QC BATCH REPORT

#### ALS Houston, US Ξ

DUP

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

FLASH POINT BY CLEVELAND OPEN Method: Batch ID: R361665 (0) Instrument: WetChem_HS CUP ASTM D92-12B HS20050571-01DUP Units: °F Analysis Date: 16-May-2020 09:00 Sample ID: Run ID: WetChem_HS_361665 SeqNo: 5586783 PrepDate: DF: 1 Client ID: SPK Ref Value Control Limit RPD Ref RPD SPK Val %REC %RPD Limit Qual PQL Value Analyte Result 0 0 30 50.0 Flash Point > 212 The following samples were analyzed in this batch: HS20050401-01

QC BATCH REPORT

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

Batch ID: R36	1706 ( 0 )	Instrume	ent:	WetChem_HS	М	ethod:	REACTIVE S	SULFIDE	
MBLK	Sample ID:	MBLK-R361706		Units:	mg/Kg	Ar	alysis Date:	18-May-202	0 13:30
Client ID:		Run ID	Wet	Chem_HS_3617	06 SegNo: 8	5587551	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		ND	100						
LCS	Sample ID:	LCS-R361706		Units:	mg/Kg	An	alysis Date:	18-May-2020	0 13:30
Client ID:		Run ID	WetC	Chem_HS_3617	06 SeqNo: 5	5587550	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		68	10.0	100	0	68.0	20 - 120		
MS	Sample ID:	HS20050401-01MS		Units:	mg/Kg	An	alysis Date:	18-May-2020	) 13:30
Client ID: 0E1	1003-01	Run ID:	WetC	Chem_HS_3617	06 SeqNo: 5	587552	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		64	10.0	100	0	64.0	20 - 120		
The following sam	ples were analyze	d in this batch: HS2005040	1-01						

Client:	Permian Basin Environmental Lab, LP
Project:	0E11003
WorkOrder:	HS20050401

#### QC BATCH REPORT

Batch ID: R3617	08(0)	Instrume	nt: L	JV-2450	М	ethod: F	REACTIVE C	YANIDE		
MBLK	Sample ID:	MBLK-R361708		Units:	mg/Kg	Ana	alysis Date:	18-May-202	0 14:30	
Client ID:		Run ID:	UV-24	50_361708	SeqNo: 5	587594	PrepDate:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Reactive Cyanide		ND	100							
LCS	Sample ID:	LCS-R361708		Units:	mg/Kg	Ana	lysis Date:	18-May-2020	) 14:30	
Client ID:		Run ID:	UV-24	50_361708	SeqNo: 5	587593	PrepDate:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Reactive Cyanide		0.6	10.0	10	0	6.00	5 - 100			ļ
MS	Sample ID:	HS20050401-01MS		Units:	mg/Kg	Ana	lysis Date:	18-May-2020	14:30	
Client ID: 0E1100	03-01	Run ID:	UV-24	50_361708	SeqNo: 5	587595	PrepDate:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	ا %RPD ا	RPD ₋imit Qual
Reactive Cyanide		0.61	10.0	10	0	6.10	5 - 100			J
The following sample	s were analyze	d in this batch: [IS2005040]	-01							]

#### ALS Houston, US

Date: 18-May-20

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Client: Project:	Permian Basin Environmental Lab, LP 0E11003	QUALIFIERS, ACRONYMS, UNITS
WorkOrder:	HS20050401	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
Н	Analyzed outside of Holding Time	
ل	Analyte detected below quantitation limit	
М	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported	Description	
Date		
mg/Kg	Milligrams per Kilogram	
mg/L	Milligrams per Liter	

#### ALS Houston, US

Page 98 of 143

#### **CERTIFICATIONS, ACCREDITATIONS & LICENSES**

Agency	Number	Expire Date	
Arkansas	20-030-0	26-Mar-2021	
Dept of Defense	ANAB L2231 V009	22-Dec-2021	
Florida	E87611-28	30-Jun-2020	
Kansas	E-10352 2019-2020	31-Jul-2020	
Louisiana	03087, 2019-2020	30-Jun-2020	
Maryland	343, 2019-2020	30-Jun-2020	
North Carolina	624-2020	31-Dec-2020	
Oklahoma	2019-141	31-Aug-2020	
Texas	T104704231-20-26	30-Apr-2021	

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					Sample Receipt	Checklist
Work Order ID: Client Name:	HS20050401 Permian Basin Lab		Date. Rece	/Time Received: ived by:	<u>12-May-2020 09:0</u> Jared R. Makan	<u>i</u>
Completed By:	/S/ Jared R. Makan	12-May-2020 15:56	Reviewed by: /S/	' Andy C. Neir	13-May-202	0 09:02
	eSignature	Date/Time		eSignature	Date/Ti	me
Matrices:	Soil		Carrier name:	FedEx Sta	andard Overnight	
Shipping contain Custody seals in Custody seals in VOA/TX1005/T2 Chain of custod Chain of custod Samplers name Chain of custod Samples in prop Sample container Sufficient sampl All samples reco Container/Temp Temperature(s)/ Cooler(s)/Kit(s): Date/Time samp	ner/cooler in good condition? ntact on shipping container/cooler ntact on sample bottles? K1006 Solids in hermetically seale y present? y signed when relinquished and re present on COC? y agrees with sample labels? her container/bottle? ers intact? e volume for indicated test? eived within holding time? Blank temperature in compliance Thermometer(s): he(s) sent to storage:	? ed vials? ecceived?	Yes ♥ Yes ♥	No  No  No  No  No  No  No  No  No  No	Not Present Not Present Not Present Not Present 1 Page(s)	1
Water - VOA via Water - pH acce pH adjusted? pH adjusted by: Login Notes:	Is have zero headspace? ptable upon receipt?		Yes Yes Yes	No No	No VOA vials submitted N/A 🔽 N/A 🔽	
Client Contacted	i:	Date Contacted:		Person Cor	ntacted:	
Contacted By:		Regarding:				
Comments:						
Corrective Actio	n:					

Received by OCD: 8/17/2020 2:35:42 PM

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Project Manager:	Brent Barron				Midland,	Texas 7	9701		۵.	roject N	С.	hondrach			
Company Name	Permian Basin Enviro	nmental L	ab, LP												
Company Address.	s: 1400 Rankin Hwy								I	Project					
City/State/Zip:	Midland, Texas 79701								1			uland, l exas			ļ
Telephone No:	432-686-7235	- <b>P</b>		Fax No:							5   				
Sampler Signature	ä								1		20 K	andard	1885	Z	PDES
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Page 29 of 30

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AHS Place INDEX (55 FEDDER CC) COLO 77099 TX-US IAH STANDARD OVERNIGHT FedEy UE - 12 MAY 3:00 SHIP DATE: 11MAY20 ACTNG1: 12.00 LB CAD: 6994482/SSFE2110 DIMS: 12×6×8 IN BILL THIRD PARTY MAY 1 2 2028 TO SAMPLE RECLEVING ALS ENVIROMENT HOUSTON LAB 10450 STANCLIFF RD STE 210 HOUSTON TX 77099 RUC ORIGIN ID:MAFA (432) 686-7235 AB SGRA 0200 8155 5665 2141 J PBE LAB 10450 STANCLIFF RD HOUSTON, TX 77099 ... .- *

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Page 20 of 20

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Page 30 of 30



### ARS Aleut Analytical, LLC Laboratory Analytical Report ARS1-20-01183

Permian Basin Environmental Lab Brent Barron 10014 SCR 1213 Midland, TX 79706 432-686-7235 brentbarron@pbelab.com, sara@pbelab.com

Job Number: **OE11004** Job Location: **MIDLAND,TEXAS** Sample ID Prefix: **OE11003-01** 

Questions regarding this analytical report should be addressed to ARS project manager, Rodney Varnell, who can be reached by phone at 225-381-2991 or email at projectmanagers@amrad.com.

I certify that the test results presented in this report (in either hardcopy or electronic file (EDD)) meet the requirements of the laboratory's certifications and other applicable contract terms and conditions. A full list of the Port Allen, LA laboratory's certifications is provided with this report. Any exceptions to the certification or contract will be noted within the case narratives presented in the report. Any subcontracted sample results will be identified within the case narratives presented in the report. In the event this report is an amendment to a previously released report, the case narrative will clearly identify the original report as well as the reason(s) for reissuance. A statement of uncertainty for each analysis is available upon request. I authorize release and issuance of this report on the date signed below.

Susan	Leese Digitally signed by Susan Leese Date: 2020.05.29 10:34:33	Laboratory Management, ARS Aleut Analytical	
Signature	Date	Title	

This report provides analytical results of the requested analysis and does not include any opinions or interpretations. ARS Aleut Analytical, LLC assumes no liability for the use or interpretation of analytical results. Results relate only to items tested. A partial reproduction of this test report is prohibited. Reproduction of this report in full requires the written approval of the laboratory.





### **Table Of Contents**

Cover Sheet	1
Table Of Contents	2
Certifications	3
Case Narrative	4
Analytical Results	7
Batch QC	9
Sample Management Records	11



### **Certifications and Accreditations List**

State or Accrediting Body (AB)	Certificate Number
AIHA-LAP, LLC	209312
Alaska	LA01131
California	2785
ANAB DoD	ADE-1489
ANAB DOE	ADE-1489.01
Louisiana DEQ - NELAC	01949
Louisiana DHH - NELAC	LA022
Nevada	LA011312020-1
New Jersey	LA009
New York	61815
Pennsylvania	68-04294-009
Texas	T104704447-19-15
Utah	LA011312019-10
Washington	C1010

For additional information related to the specific matrices, methods, and analytes recognized by each accrediting body, contact us at <u>QAQC@amrad.com</u> for additional information.

ARS-001-013 r0.6 Revision Date: 05/05/2020

ARS1-20-01183



## ARS Aleut Analytical, LLC Analytical Reports

for

## Permian Basin Environmental Lab

# **Case Narrative**

ARS1-20-01183



#### PROJECT SAMPLE IDENTIFICATION CROSS-REFERENCE TO ARS SAMPLE LABORATORY IDs

Client	ARS Aleut Analytical
Sample ID	Sample ID
OE11003-01	ARS1-20-01183-001

Sample	Date Collected	Date Received	Analysis	Prep Date/Time	Analysis Date/Time
001	05/08/20 13:00	05/14/20	GAM-A-SO	05/15/20 07:59	05/26/20 11:13

#### SAMPLE RECEIPT/PREP

The samples arrived in good condition. The samples were screened for radioactive contamination as per procedure **PALA-SR-001-SOP Sample Receiving**. Sample date(s) and time(s) are listed as provided by the client. Turnaround time was set at 10 work days.

#### ANALYTICAL METHODS

Am-241, Be-7, Bi-212, Bi-214, Ir-192, K-40, Pa-234, Pb-210, Pb-214, Ra-224, Ra-226, Ra-228, Sc-46, Th-228, Tl-208, Tl-210, Total NORM Activity, Total NORM Gamma, U-235, and U-238 analyses were performed using ARS-007, "Modified Gamma Emitting Radionuclides in Soil, Air, and Biota Matrices (EPA 901.1 Mod & HASL-300 Ga-01-R)".

#### ANALYTICAL RESULTS

All QC criteria were met.



#### Notes (Case Narrative)

#### **Definitions:**

- CRDL Contract Required Detection Limit CSU Combined Standard Uncertainty
- Decision Level Concentration (ÁNSI N42.23) or critical level DLC
- DO **Duplicate Original**
- DUP Method Duplicate
- LCS/LCSD Laboratory Control Sample/Laboratory Control Sample Duplicate
- Limit of Detection LOD
- Limit of Quantitation LOQ
- MBL Method Blank
- Maximum Contaminant Level MCL
- Minimum Detectable Activity MDA (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis
- MDC MDL Method Detection Limit
- MS/MSD Matrix Spike/Matrix Spike Duplicate
- Not Applicable N/A
- Not Provided NP
- Not Referenced NR
- PQL Practical Quantitation Limit

#### **Data Qualifiers:**

- The activity of both the method blank and the target sample are above the MDL. В
- Sample analysis accomplished through dilution. D
- The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL. J
- Q The LCS and LCSD percent recoveries are out of range.
- U Activity is below the MDC, MDA, MDL, PQL, LOD, or LOQ
- The analyte is a tentatively identified compound using mass spec or any non-customer requested compounds that are tentatively identified. LCS/LCSD or Sample DUP fails one or more Duplicate criteria. Ν
- Ş Spike
- Subcontracted out to another qualified laboratory SC
- Holding time exceeded Н
- Exceeds MCL E **
- Reporting Limit is higher than MCL; Target cannot be detected

#### Radiochemistry Comments:

- All MDA/MDC values are calculated on a sample specific basis. 1.0)
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0Ì Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles. Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only). 4.0)
- U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only). 5.0)
- All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe). 6.0)
- ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data 7.0) results may be affected (Gamma Spectroscopy only).
- Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine. 8.0)
- DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in Non-Potable Water: 9.0) Gross Alpha and Gross Beta (EPA 900.0, EPA 9310); Radium 226 (EPA 903.0, EPA 903.1 Mod, EPA 9315); Radium 228 (EPA 904.0, EPA 9320); ICP/MS (EPA 200.8, EPA 6020B); ICP-OES (EPA 200.7, EPA 6010C, EPA 6010D); Mercury CVAA (EPA 7470A); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02-RC); Tritium (EPA 906.0); Tritium, Carbon-14 (ARS-151-Use of the Pyrolyser); Gamma Emitters (EPA 901.1, SM 7120B, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03 VBS, HASL 300 Se-03, HASL 300 Am-03); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03 VBS, HASL 300 Se-03, HASL 300 Pu-10); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW08, Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03 VBS, HASL 300 Se-03); Lead-210 (Eichrom OTW01); Technetium-99 (Eichrom TCW02); GC/MS (EPA 624, EPA 624, 1, 8260B, EPA 8270D); GC/ECD (EPA 608, EPA 8082A).
- 10.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in Solid and Chemical Materials: Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010C, EPA 6010D); Mercury CVAA (EPA 7471B); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02); Tritium (EPA 906.0 Mod); Tritium, Carbon-14 (ARS-151-Use of the Pyrolyser); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03 VBS, HASL 300 Se-03, HASL 300 Am-01-RC); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03 VBS, HASL 300 Se-03, HASL 300 Pu-02-RC, HASL 300 Pu-03-RC); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW08, Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03 VBS, HASL 300 Se-03, HASL 300 U-02, HASL 300 U-04); Technetium-99 (Eichrom TCS01 Mod); GC/MS (EPA 8260B, EPA 8270D); GC/ECD (EPA 8082A).
- DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in Air and Emissions: 11.0) Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010C, EPA 6010D); Strontium-89 (Eichrom SRW01, HASL 300 Sr-01-RC); Strontium-90 (Eichrom SRW01, HASL 300 Sr-02-RC); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03 VBS, HASL 300 Se-03); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03 VBS, HASL 300 Se-03); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW08 Mod, Eichrom ACW10 Mod); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03 VBS, HASL 300 Se-03); Technetium-99 (Eichrom TCW02, Eichrom TCS01).

#### General Comments:

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- Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated. 1.0)
- 2.0)Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M). All NIOSH method results are reported without blank corrections applied. 3.0)



## ARS Aleut Analytical, LLC Analytical Reports

for

## Permian Basin Environmental Lab

**Analytical Results**


2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 · FAX (225) 381-2996

ARS Sample Delivery Group:ARS1-20-01183Client Sample ID0E11003-01Sample Collection Date:05/08/20 13:00Sample Matrix:Soil/Solid/SludgePercent Solids:N/A

 Request or PO Number:
 0E11004

 ARS Sample ID:
 ARS1-20-01183-001

 Date Received:
 05/14/20

 Report Date:
 05/28/20

### Radiochemistry

Analysis Method: ARS-007/EPA 901.1 Mod & HASL-300 Ga-01-R

Analysis Description	Analysis Results	CSU +/- 2 s	MDC	DLC	CRDL	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Be-7	0.330	0.600	1.040	0.520	NP	υ	pCi/g	05/26/20 11:13	EEC	N/A
Bi-212	-0.095	3.789	1.320	0.660	NP	U	pCi/g	05/26/20 11:13	EEC	N/A
Bi-214	0.662	0.308	0.437	0.219	NP	Í	pCi/g	05/26/20 11:13	EEC	N/A
K-40	3.519	2.021	2.830	1.415	NP	Į	pCl/g	05/26/20 11:13	EEC	N/A
Pb-210	0.573	1.223	2.380	1.190	NP	U	pCi/g	05/26/20 11:13	EEC	N/A
Pb-214	0.828	0.292	0.352	0.176	NP		pCi/g	05/26/20 11:13	EEC	N/A
Ra-226	-2.145	1.281	3.140	1.570	NP	υ	pCi/g	05/26/20 11:13	EEC	N/A
Ra-228	0.373	0.378	0.608	0.304	NP	U	pCi/g	05/26/20 11:13	EEC	N/A
Sc-46	0.039	0.101	0.181	0.091	NP	U	pCi/g	05/26/20 11:13	EEC	N/A
Th-228	0.302	0.207	0.287	0.144	NP		pCi/g	05/26/20 11:13	EEC	N/A
TI-208	0.003	0.128	0.251	0.126	NP	υ	pCi/g	05/26/20 11:13	EEC	N/A
U-235	-5.502E-4	0.348	0.666	0.333	NP	U	pCi/g	05/26/20 11:13	EEC	N/A
U-238	1.854	1.214	2.620	1.310	NP	บ	pCi/g	05/26/20 11:13	EEC	N/A
Total NORM Gamma	10.486	N/A	N/A	N/A	NP		pCi/g	05/26/20 11:13	EEC	N/A
Total NORM Activity	18.262	N/A	N/A	N/A	NP		pCl/g	05/26/20 11:13	EEC	N/A



### ARS Aleut Analytical, LLC Analytical Reports

for

### Permian Basin Environmental Lab

### **Batch QC**



### **QC Results per Analytical Batch**

### **Acceptable QC Performance Ranges**

**Analytical Batch** 

Analysis Code

**Report Units** 

**Analysis Test Method** 

SDG

Analysis

QC Sample Type	Peri	formance Items and Ranges		
Laboratory Control Sample	Recovery (%):	> 75	< 125	
Matrix Spike	Recovery (%):	> 60	< 140	
Duplicate	Du	plicate Error Ratio (DER):	< 3	
	Relative Perc	ent Difference (RPD %):	≤ 25	

Laboratory Control S	ample		Analysis Date	05/26/20 09:33	Analysis Technician	E	EC
Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (2s)	Expected Value	LCS Rec (%)	MDC
ARS1-B20-00873-01	LCS	AM-241	4.126E+4	2.951E+3	4.084E+4	101.0	320.700
ARS1-B20-00873-01	LCS	CO~60	5.298E+4	2,430E+3	5.051E+4	104.9	573.400
ARS1-B20-00873-01	LCS	CS-137	4,157E+4	1.929E+3	4.035E+4	103.0	143.800

Duplicate RER/DER/RPD		Analysis Date	05/26/20 09:45	Analysis Technician	E	c
Analyte	Results LCS	CSU LCS (2s)	Results LCSD	CSU LCSD (2s)	DER	RPD
AM-241	4.126E+4	2.951E+3	4.021E+4	2.882E+3	0.503	2.6
CO-60	5.298E+4	2.430E+3	5.260E+4	2.427E+3	0.219	0.7
CS-137	4.157E+4	1.929E+3	4.219E+4	1.962E+3	0.443	1.5

Method Blank	·	Analysis Date	05/26/20 11:12	Analysis Technician	EE	2
Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (2s)	MDC	Qual
ARS1-B20-00873-03	MBL	AM-241	0.397	4.107	7.570	U
ARS1-B20-00873-03	MBL	BI-212	-14.559	53,580	78.100	U
ARS1-B20-00873-03	MBL	BI-214	-6.348	253.940	22.700	U
ARS1-820-00873-03	MBL	IR-192	-0.249	5.427	5.340	U
ARS1-B20-00873-03	MBL	K-40	-73,331	2.933E+3	138.000	U
AR51-B20-00873-03	MBL	PA-234	-45.203	282.840	92.100	U
ARS1-B20-00873-03	MBL	PB-210	-32.549	115,430	118.000	U
ARS1-B20-00873-03	MBL	PB-214	-4.366	39,380	20.200	U
ARS1-B20-00873-03	MBL	RA-224	3.025	61.211	114.000	U
ARS1-B20-00873-03	MBL	RA-226	22.363	72.768	134.000	U
ARS1-B20-00873-03	MBL	RA-228	-3,787	151.480	48,600	U
AR51-B20-00873-03	MBL	SC-46	-1.205	48.205	6.150	U
ARS1-B20-00873-03	MBL	TH-228	-1.680	15.175	12.300	U
ARS1-B20-00873-03	MBL	TL-208	0.752	4.962	9.560	U
ARS1-B20-00873-03	MBL	U-235	1.246	4.191	7.870	U
ARS1-B20-00873-03	MBL	U-238	-45.203	282.840	92.100	U

### ARS1-B20-00873

ARS1-20-01183 Gamma Spec (Solid) ARS-007/EPA 901.1M GAM-A-SO pCi/g



### ARS Aleut Analytical, LLC Analytical Reports

for

### Permian Basin Environmental Lab

**Sample Management Records** 

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Company Name	Permian Basin Enviro	nment	al Lab	, LP							1	Proje	췽	E11004					
Company Addres	s: 1400 Rankin Hwy											Project	ا تۆ	Midlan	d, Texas				
City/State/Zip:	Midland, Texas 79701											ш	, j						
Telephone No:	432-686-7235				Fax No:						Rer	ort Forma	¥ ¥	Stands	pr	П ткке		NPDE	ល
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ARS Aleut Analytical, LLC Port Allen Laboratory

Printed: 5/28/2020 12:10 PM Page 1 of 2

# **SDG Report - Samples and Containers**

	Project Type Environmental	COC Number		Job Number 0E11004	Job Location MIDLAND, TEXAS	
cific Data	10 Business Days	05/14/2020	N/A	05/29/2020		
SDG Spec	TAT Days	Date Received	Discrepancy Resol	Client Deadline		
	ARS1-20-01183	1 Rpt Level 2	Permian Basin Environmental Lab	703	PN-00783	
	SDG	Sample Count	Client	Client Code	Profile Number	Comment

FR Name 001 0E11003-01 IC_ID 336898	Samples and Containers Checked In Thus Far       Name     Matrix     Start Date     Disp     Hold     Arch     Storage       0E11003-01     Soil/Sol     05/08/2020 13:00     05/08/2020 13:00     H     30     10     A2       0E1     Ch     Soil/Sol     05/08/2020 13:00     H     30     10     A2       0     Ch     Ch     Container Type     Container Size     PH Final     Temp (C)     Comments       33698     1     Class Container     250ml	
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ARS Aleut Analytical, LLC Port Allen Laboratory

Printed: 5/28/2020 12:10 PM Page 2 of 2

# **SDG Report - Analysis Assignments**

Sample Count 1	Analysis count 1-1	
SDG ARS1-20-01183	Client Permian Basín Environmental Lab	

	amples count		
	In/out s	<b>I</b> 	
Sample Count Totals Per Analysis	Analysis Description	Gamma Spec (Short) in (Soil, Sludge, Waste,	Sediment,Biota [SO, BI, VG])
	Analysis Code	GAM-A-SO	

ction	X = Assigned	×
Ilyses Assigned Per Fra	Analysis Code	GAM-A-SO
Ana	Fraction	001

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ARS Aleut Analytical, LLC Port Allen Laboratory

### DQO Report for SDG

ARS1-20-01183

Printed: 5/28/2020 12:10 PM Page 1 of 2

Page 116 of 143

Client Name: Permian Basin Environmental Lab

Profile Name: Midland TX

Report Level: 2

Analysis Code	Prep Type	Units	Aliquot	Prep Code	Procedure	Count Time					
GAM-A-SO	WGAM	DCI	0	N/A	ARS-007						
		Analyte		RDL	רכצ רו־/חוּ	MS LL/UL	RadY LL/UL	Gravy LL/UL	RER	RPD	Surr LL/UL
	Am-241 (14596-1	0-2)		pCI/g	75/125	60/140	30/110	40/110	1	25	N/A
	Be-7 (13966-02-4	(		pCi/g	75/125	60/140	30/110	40/110		25	N/A
	Bi-212 (14913-49	-6)		pCi/g	75/125	60/140	30/110	40/110	ч	25	N/A
	Bi-214 (14733-03	(0-		pCi/g	75/125	60/140	30/110	40/110	Ч	25	N/A
	Ir-192 (14694-69	-0		pCi/g	75/125	60/140	30/110	40/110	1	25	N/A
	K-40 (13966-00-2	5)		pCi/g	75/125	60/140	30/110	40/110	1	25	N/A
	Pb-210 (14255-04	4-0)		pCi/g	75/125	60/140	30/110	40/110	-1	25	N/A
	Pb-214 (15067-28	3-4)		pCi/g	75/125	60/140	30/110	40/110		25	N/A
	Ra-224 (13233-33	2-4)		pCi/g	75/125	60/140	30/110	40/110	ч	25	N/A
	Ra-226 (13982-6)	3-3)		5 pCi/g	75/125	60/140	30/110	40/110		25	N/A
	Ra-228 (15262-2(	0-1)		5 pCl/g	75/125	60/140	30/110	40/110	T	25	N/A
	Sc-46 (13967-63-	( <u>o</u>		pCi/g	75/125	60/140	30/110	40/110	-	25	N/A
	Th-228 (14274-83	2-9)		pCi/g	75/125	60/140	30/110	40/110		25	N/A
	TI-208 (14913-50	(6-		pCi/g	75/125	60/140	30/110	40/110	ч	25	N/A
	TI-210			pCi/g	75/125	60/140	30/110	40/110		25	N/A
	U-235 (15117-96	-ī)		pCI/g	75/125	60/140	30/110	40/110	1	25	N/A
	U-238 (7440-61-1	1)		pCi/g	75/125	60/140	30/110	40/110	1	25	N/A
	Pa-234 (15100-28	8-4)		pCi/g	75/125	60/140	30/110	40/110	Ч	25	N/A
	Total NORM Activi	ity		pCi/g	75/125	60/140	30/110	40/110	Ч	25	N/A
	Total NORM Gam	na		pCi/g	75/125	60/140	30/110	40/110	4	25	N/A
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### ARS Aleut Analytical, LLC Port Allen Laboratory

### DQO Report for SDG ARS1-20-01183

Printed: 5/28/2020 12:10 PM Page 2 of 2

Page 117 of 143

		σ						Ir-1-	K-40	Pa-234	Pb-210	Pb-214	Ra-224	Ra-226	Ra-228	Sc-46	Th-228	TI-208	TI-210	Total NOF	Total NC	U-235	88671
NORM NORM NORM NORM NORM NORM NORM NORM	Units	Ō	Group	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM

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User: RVARNELL Last Modified: 5/14/2020 11:20:53 AM Page 16.6f 19

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ARS Aleut Analytical	S	LA Sample Client Name: <u>F</u> DG: <u>へ</u> R S	Receipt Inspection <u>FRMIAN BASI</u> 1-20-1/63	on Form <u>ジー                                    </u>	Sar	nple Receip PALA-SR Effe	t Inspection For -001-FM-01 r 00. ective 08/30/201 Page 1 of
Sample Custodian:		Survey Start D	ate:5-14.20	Survey Start Time:	0418		
Thermometer ID: <u>E912</u>	2001493	Calibration Due Da	te: 6-23.20	pH Paper Lot#	215118		
Exposure Rate Meter + Probe	e Unit ID: <u>2 9288 4</u>	SPR243744	Calibration Due Dat	e: <u>1-3-21</u>	Backgrour	id: <u>15</u>	_ μR/hr
Count Rate Meter + Probe U	nit ID:329063	1   PR357215	Calibration Due Dat	e: 1-3-21	Backgrour	id: <u>40</u>	cpm
Delivery Type (circle one):	Direct Lock Box	Commercial Car	rier: <u>FED E</u> S	∠Total # of	ESCs:		
External Shipping Container Tracking:	Exposure Rate (μR/hr} (limit <500 μR/hr)	Max External Swipe Counts (cpm)	• جَرَ Max Internal Swipe Counts (cpm)	ue temperature is recorded v ESC True Temps* (°C)	hich includes any TRAX Mat (See Section	applicable corr rix ID (circle 4.3 of SOP)	ection factors. all that apply):
A: 81555665213-	. <u>18</u>	40	50	NA	AQ	WD W	vg wo
в:	· ····				WS	ww .	si UR
C:		<b></b>			(50	)ol 1	BI VG
D:					WP	SM A	٩F
E:							
F:							
Visual Inspection:	(Circle respo	15e)	COC/Sample Inspec	tion	 (C	ircle respo	nse)
External Shipping Container			Sample Containers i	n good condition	(He	s No	
Good Condition with no Leaks or Tears	(Yes No		No spills or leaks		80	No No	
Marked Radioactive	Yes (No		Marked Radioactive		Ye	s No	ì
UN2910	Yes NO		Durable labels w/in	delible ink	(Te	3 No	£*
Security Seals	Yes (No	, ,	COC reliquished/rec	eived correctly	(Fe		
If yes, intact?	Yes No	THEFA	Adequate volume/fi	illed correctly	ATE	No No	
nternal Shipping Container		$\bigcirc$	Hold Time sufficient	for analysis	(se	s No	
COC's Present	(Ges) NO		For VOC/Radon, Hea	ad space?	Ye	s No	(NTA)
			lf yes, <6mm?		Ye	s No	(NTA)
Well packaged container with	A TES NO		# of containers rece	ived matches # on C	oc <i>(Re</i>	s No	$\smile$
Well packaged container with no signs of leakage	$\bigcirc$					/	
Well packaged container with no signs of leakage 	$\bigcirc$		Samples received or	ice?	Ye	s 110	)
Well packaged container with no signs of leakage Comments:			Samples received or Type (circle one	n ice? ): Bagged Ice	Ye Loose Ice	s 116 Blue	) Ice (NTA)

•

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PALA Sample Survey Form Client Name: <u>PERMAN BASIN</u> SDG: <u>A 1251-20</u>

Sample Survey Form PALA-SR-001-FM-02 r 0.1 Effective 08/30/2019

Page _____ of _____

Pipette ID:	o Lot#:	19085M	Ð	·		I		Acceptance
Disposible pipette lot#: / 3 3 / 1 7 59	2			pH · Acces	<2 is otable			<100 cpm/cm
Sample ID from Client on COC or Sample	ESC Letter	Sample Container Type	Approx. Fill Level (%)	pH As Rec'd	pH Adjusted	Acid Lot # or Ind container temp (°C)	Vol. of Acid Used (mL)	cpm
DE11003-01	LA	G1455250	100	NA	ALA	<i>N_</i> ,A	A	50
						ar 1		
	[							
· · · ·	f							
						· · · · · · · · · · · · · · · · · · ·		
								1
	]				[			]
Sample Custodian:F		Survey End D	ate: <u>5-14-2</u>	2	Survey/pl	H End Time: <u>0925</u>	-	
pH re-check required? YES or NO	NOTE: Any	rmetals sample acid	lified at sampl	e recelving	g must be r	e-checked after a 24 hour ha	ld.	
If YES: pH re-check date/time:	/		Analyst:			pH strip lot #	l:	
Were all re-checked samples' pH < 2? YES or	NO*	:	*If no, compl 1. Section A o	ete and s f PALA-S	end to Pri R-001-FM	oject Management: 1-05 (24 Hour Hold pH Rec	idjustment)	
			2. SR section	of PALA-S	SR-001-FN	A-03 (Discrepant Sample I	Receipt Repor	t).

ENVIRONMENTAL SOLUTIONS | QUALITY CONSCIOUS

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Received by OCD: 8/17/2020 2:35:42 PM

Page 120 of 143



*PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701* 



### Analytical Report

### Prepared for:

David Adkins Talon LPE 2901 S. State Hwy 349 Midland, TX 79706

Project: Matador Florence ST. 23 202H Project Number: 700376.508.01 Location: Lea County, NM

Lab Order Number: 0E20016



NELAP/TCEQ # T104704516-18-9

Report Date: 05/28/20

Page 1 of 23

143
of
122
Page

### Project: Matador Florence ST. 23 202H Project Number: 700376.508.01 Project Manager: David Adkins

Fax: (432) 522-2180

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ 2.5'	0E20016-01	Soit	05/19/20 09:50	05-20-2020 15:29
S-2 @ 2.5'	0E20016-02	Soil	05/19/20 10:00	05-20-2020 15:29
S-3 @ 2.5'	0E20016-03	Soil	05/19/20 10:20	05-20-2020 15:29
S-4 @ 2.5'	0E20016-04	Soil	05/19/20 10:50	05-20-2020 15:29
N. SW @ 1.5'	0E20016-05	Soil	05/19/20 11:40	05-20-2020 15:29
S. SW @ 1.5'	0E20016-06	Soil	05/19/20 10:50	05-20-2020 15:29
E. SW @ 1.5'	0E20016-07	Soil	05/19/20 11:50	05-20-2020 15:29
W. SW @ 1.5'	0E20016-08	Soil	05/19/20 11:10	05-20-2020 15:29
S-6 @ 1.5	0E20016-09	Soil	05/19/20 13:00	05-20-2020 15:29
S-7@1.5	0E20016-10	Soil	05/19/20 13:35	05-20-2020 15:29
S.SW-2 @ 1.5'	0E20016-11	Soil	05/19/20 14:00	05-20-2020 15:29
E.SW-2 @ 1.5'	0E20016-12	Soil	05/19/20 13:30	05-20-2020 15:29
W.SW-2 @ 1.5'	0E20016-13	Soil	05/19/20 13:10	05-20-2020 15:29

e 123	
Pag	
	Talon LPE
	2901 S. State Hwy 349

Midland TX, 79706

### S-1 @ 2.5' 0E20016-01 (Soil)

		015200	10-01 (S	011}					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

### Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EP	A / Standard Methods	· · · · · · · · · · · · · · · · · · ·							
% Moisture	8.0	0.1	%	i	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M							
C6-C12	ND	27.2	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	65.9	27.2	mg/kg diy	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	36.4	2.7.2	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chlorooctone		96.4 %	70-130		P0E2105	05/21/20	05/21/20	17PH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0E2105	05/21/20	05/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	102	27.2	nıg/kg dıy	I	[CALC]	05/21/20	05/21/20	calc	

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of 143	
124	
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								Eav: (432) 52	2 2190
Talon LPE		Pro	ject: Matado	or Florence	ST. 23 2021	ł		Fax. (452) 52	.2*2100
2901 S. State Hwy 349		Project Num	ber: 700376	5,508.01					
Midland TX, 79706	-	Project Mana	ger: David /	Adkins					
		s	-2 @ 2.5'						
		0E20	016-02 (So	il)				······	
		Reporting							
Anatyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmer	ital Lab, I	L.P.				
General Chemistry Parameters by	EPA / Standard Method	\$							
% Moisture	13.0	0.1	%	ł	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA Method 801	15M	,,						
C6-C12	ND	28.7	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	I	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.6 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1.	30	P0E2105	05/21/20	05/21/20	TPH 8015M	

28.7 mg/kg dry

ND

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbon C6-C35

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

05/21/20

calc

[CALC]

1

05/21/20

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 4 of 23

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Talon LPE		Pro	ject: Matado	or Florence	ST. 23 2021	ł		Fax: (432) 52	22-2180
2901 S. State Hwy 349		Project Num	iber: 700376	.508.01					
Midland TX, 79706		Project Mana	iger: David	Adkins					
		s	-3 @ 2.5'						
		0E2(	016-03 (So	il)					
	<b>D</b> . 1	Reporting	T []4.	Dilution	Datab	Duananad	Anoburad	Mathod	Notos
Analyte	Kesult	Limit	Units	Dilaton	Batch	rieparea	Anatyzed	Wethou	indics
	Pern	nian Basin I	Environmei	ital Lab, I	h,P.				
General Chemistry Parameters by EPA /	Standard Method	S							
% Moisture	9.0	0.1	%	1	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	y EPA Method 80	15M							
C6-C12	ND	27.5	mg/kg dry	L	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg diy	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dıy	L	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chloroociane		96.4 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Total Petroleum Hydrocarbou C6-C35	ND	27.5	mg/kg dry	I	[CALC]	05/21/20	05/21/20	cale	

27.5 mg/kg dry

ND

[CALC]

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbon C6-C35

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Page 5 of 23

Total Petroleum Hydrocarbon C6-C35

Talon LPE		Pro Project Music	ject: Matado	or Florence	ST. 23 2021	ł		Fax: (432) 5	22-2180
2901 S. State Hwy 349				A diring					
Midland TX, 79706		Project Mana	iger: David	AGKIDS		,			
		s	-4 @ 2.5'						
		0E20	)016-04 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environme	ntal Lab, I	L.P.				
General Chemistry Parameters by	EPA / Standard Method	5							
% Moisture	8.0	0.1	%	Ι	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA Method 801	15M					·····		
C6-C12	ND	27.2	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	I	P0E2105	05/21/20	05/21/20	TPH 801.5M	
>C28-C35	ND	27.2	mg/kg diy	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.9 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	

I

[CALC]

05/21/20

05/21/20

calc

27.2 mg/kg dry

ND

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Page 6 of 23

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706	J	Pro Project Nun Project Mana	iject: Matado iber: 700376 igor: David /	or Florence i.508.01 Adkins	ST. 23 2021	ł		Fax: (432) 53	22-2180
L	· · · · · ·	N	SW @ 1.5						
		13, 0110/	5 W (@ 1.5	•••					
		0.620	016-05 (80)	11) 					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmer	ital Lab, I	L.P.				
General Chemistry Parameters by EPA /	Standard Methods	i							
% Moisture	7.0	1.0	%	1	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	y EPA Method 801	5M							
C6-C12	ND	26.9	mg/kg dry	ł	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	L	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %	70-1.	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1.	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/21/20	05/21/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 7 of 23

of 143		
128		
Page		

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706		Pro Project Num Project Mana	ject: Matador iber: 700376.5 iger: David Ac	Florence 508.01 fkins	ST, 23 202F	ł		Fax; (432) 5:	22-2180
I		S. : 0E20	SW @ 1.5' 1016-06 (Soil)	)					
Analyte	Result	Reporting Limit	Units	Dilution	Balch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environment	al Lab, I	L.P.				
General Chemistry Parameters by EPA /	Standard Method	<u>s</u>							
% Moisture	6.0	0.1	%	1	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	oy EPA Method 801	15M		`	. <u>.</u>				,
C6-C12	ND	26.6	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	4	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg diy	t	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1%	70-130	)	P0E2105	05/21/20	05/21/20	TP118015M	
Surrogate: o-Terphenyl		102 %	70-130	)	P0E2105	05/21/20	05/21/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/21/20	05/21/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 8 of 23

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129	
Page	

43

Talon LPE	······································	Pro	ject: Matado	r Florence	ST. 23 202I	1	· · · ·	Fax: (432) 52	2-2180
2901 S. State Hwy 349		Project Num	ber: 700376	.508.01					
Midland TX, 79706		Project Mana	ger: David /	Adkins					
		E.	SW @ 1.5'	I					
		0E20	1016-07 (Soi	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Invironmen	ital Lab, I	ե,թ.				
General Chemistry Parameters by EP	A / Standard Methods	5			<u></u>				
% Moisture	7.0	0,1	%	l	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	15M							
C6-C12	ND	26.9	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	34.6	26.9	mg/kg dry	I.	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	I	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %	70-1.	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: o-Terphenyl		104%	70-1.	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Total Petroleum Hydrocarbou	34.6	26.9	mg/kg dry	1	[CALC]	05/21/20	05/21/20	cale	

Total Petroleum Hydrocarbon C6-C35

Permian Basin Environmental Lab, L.P.

1

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Page 9 of 23

of 143	
130	
Page	

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706	F	Pro Project Nurr Project Mana	ject: Matado iber: 700376 iger: David a	or Florence 5,508.01 Adkins	STI: 23 2021	1		Fax: (432) 52	2-2180
		W. 0E20	SW @ 1.5 0016-08 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Aualyzed	Method	Notes
	Perm	ian Basin I	Invironme	ntal Lab, I	L.P.				
General Chemistry Parameters by	EPA / Standard Methods					***			
% Moisture	5,0	0.1	%	1	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA Method 801	5M		··					
C6-C12	ND	26.3	mg/kg diy	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C12-C28	77.1	26.3	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogale: 1-Chlorooclane	i i i i i i i i i i i i i i i i i i i	96.5 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-1	30	P0E2105	05/21/20	05/21/20	TPH 8015M	

26.3 mg/kg dry

1

[CALC]

05/21/20

05/21/20

calc

77.1

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbon

C6-C35

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Page 10 of 23

of 143		
131		
Page		

Taton LPE		Pro	ject: Matado	or Florence	ST 23 2021	I		Fax: (432) 5	22-2180
2901 S. State Hvvy 349		Project Num	iber: 700376	5.508.01					
Midland TX, 79706	]	Project Mana	ger: David	Adkins					
		s	-6 @ 1.5'						
		0E2(	016-09 (So	il)					·····
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environme	ntal Lab, I	L.P.				
General Chemistry Parameters by EP	A / Standard Methods					<u></u>			
% Moisture	9.0	0,1	%	I	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M							<u> </u>
C6-C12	ND	27.5	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C12-C28	39.5	27.5	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: 1-Chlorooctune		104 %	70-1	30	POE2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-1	30	P0E2107	05/21/20	05/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	39.5	27.5	mg/kg dry	3	[CALC]	05/21/20	05/23/20	CALC	

Permian Basin Environmental Lab, L.P.

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Page 11 of 23

Talon LPE	Project: Matador Florer
2901 S. State Hwy 349	Project Number: 700376.508.01
Midland TX, 79706	Project Manager: David Adkins

Anglute	Result	Reporting	Units	Dilution	Balcb	Prenared	Analyzed	Method	Notes
	icoburt.						,		
	Perm	ian Basin I	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EP	A / Standard Method	5						· · · · · · · · · · · · · · · · · · ·	
% Moisture	8.0	1.0	%	ł	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80.	15M	4						
C6-C12	ND	27.2	mg/kg dry	f	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C12-C28	58.5	27.2	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-13	80	<i>P0E2107</i>	05/21/20	05/23/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-13	30	P0E2107	05/21/20	05/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	58.5	27.2	mg/kg dry	I	[CALC]	05/21/20	05/23/20	calc	

Project: Matador Florence ST. 23 202H

Permian Basin Environmental Lab, L.P.

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Page 12 of 23

Fax: (432) 522-2180

Page 132 of 143

of 143		
133		
Page		

C6-C35

Talon LPE 2901 S. State Hwy 349 Midland TX, 79706	F	Project: Matador Florence ST. 23 202H Project Number: 700376.508.01 Project Manager: David Adkins							
		S.S	W-2 @ 1.5'						
		0E2(	)016-11 (Soil	)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EP.	A / Standard Methods		<u></u>						
% Moisture	2.0	0.1	%	1	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	<u>5M</u>							
C6-C12	ND	25.5	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C12-C28	536	25.5	mg/kg dry	I	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C28-C35	102	25.5	mg/kg dıy	I	P0E2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-13	0	P0E2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: o-Terphenyl		2.40 %	70-13	0	P0E2107	05/21/20	05/23/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon	637	25.5	mg/kg dry	1	[CALC]	05/21/20	05/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 13 of 23

43

Talon LPE	alon LPE Project: Matador Florence ST. 23 202H								
2901 S. State Hwy 349		Project Nun	nber: 700376	.508,01					
Midland TX, 79706		Project Man	ager: David /	Adkins					
		E.S	W-2@1.5	t					
		0E20	)016-12 (Soi	1)					
	N 1.	Reporting		-					
Analyle	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EF	Perm PA / Standard Methods	ian Basin I 1	Environmen	ital Lab, I	L.P.				
% Moisture	6.0	0.1	%	1	P0E2103	05/21/20	05/21/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 801	5M							
C6-C12	ND	26.6	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C12-C28	874	26.6	mg/kg dry	I	P0E2107	05/21/20	05/23/20	TPH 8015M	
>C28-C35	179	26.6	mg/kg dry	J	P0E2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-1.	30	P0E2107	05/21/20	05/23/20	TPH 8015M	
Surrogate: o-Terphenyl		117%	70-13	10	P0E2107	05/21/20	05/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1050	26.6	mg/kg dry	1	[CALC]	05/21/20	05/23/20	cale	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 14 of 23

Talon LPE		Pro	ject: Matado	or Florence	ST. 23 2021	H		Fax: (432) 5	22-2180
2901 S. State Hwy 349		Project Nun	aber: 700376	.508.01					
Midland TX, 79706		Project Mana	ager: David	Adkins					
		W.S	W-2 @ 1.5	5'					
		0E2(	)016-13 (So	il)					
		Reporting							
Analyte	Result	Linit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<mark>Seneral Chemistry Parameters by EP</mark> % Moisture	A / Standard Method 4.0	<u>s</u> 0.1	%	l	P0E2103	05/21/20	05/21/20	ASTM D2216	
Cotal Petroleum Hydrocarbons C6-C3	5 by EPA Method 80.	15M							
26-C12	ND	26,0	mg/kg dry	1	P0E2107	05/21/20	05/23/20	TPH 8015M	
C12-C28	186	26.0	mg/kg dry	I	P0E2107	05/21/20	05/23/20	TPH 8015M	
C28-C35	48.1	26.0	mg/kg dıy	ł	P0E2107	05/21/20	05/23/20	TPH 8015M	
urrogate: 1-Chloroactane		99.5 %	70-1.	30	P0E2107	05/21/20	05/23/20	TPH 8015M	
urrogate: o-Terphenyl		113 %	70-13	10	<i>P0E2107</i>	05/21/20	05/23/20	TPH 8015M	
otal Petroleum Hydrocarbon 6-C35	234	26.0	mg/kg dry	I	[CALC]	05/21/20	05/23/20	calc	

Page 135 of 143

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 15 of 23

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Page

### General Chemistry Parameters by EPA / Standard Methods - Quality Control

### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Límit	Notes
Batch POE2103 - *** DEFAULT PREP ***										
Blank (P0E2103-BLK1)				Prepared &	Analyzed:	05/21/20				
% Moisture	ND	0.1	%							
Duplicate (P0E2103-DUP1)	Sour	ce: 0E20004-6	01	Prepared &	Analyzed;	05/21/20				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0E2103-DUP2)	Sour	ce: 0E20010-0	)6	Prepared &	Analyzed:	05/21/20				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0E2103-DUP3)	Sour	e: 0E20012-1	3	Prepared & Analyzed: 05/21/20						
% Moisture	7.0	0.1	%		7.0	·		0.00	20	
Duplicate (P0E2103-DUP4)	Sour	e: 0E20015-0	1	Prepared &	Analyzed:	05/21/20				
% Moisture	6.0	0,1	%		5.0			18.2	20	

Permian Basin Environmental Lab, L.P.

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E2105 - TX 1005							<b>- 17</b>	-		
Blank (P0E2105-BLK1)				Prepared &	k Analyzed:	05/21/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	11							
>C28-C35	ND	25.0	lf							
Surrogate: 1-Chlorooctane	110		n	100		110	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			
LCS (P0E2105-BS1)				Prepared &	Analyzed:	05/21/20				
C6-C12	1150	25.0	nig/kg wet	1000		115	75-125			
>C12-C28	1230	25.0	и	1000		123	75-125			
Surrogate: 1-Chlorooctane	105		ч	100		105	70-130			
Surrogate: v-Terphanyl	57.7		н	50.0		]5	70-130			
LCS Dup (P0E2105-BSD1)				Prepared &	Analyzed:	05/21/20				
C6-C12	1060	25,0	mg/kg wet	1000		106	75-125	7.90	20	
>C12-C28	1190	25.0	u	0001		119	75-125	2.70	20	
Surrogate: 1-Chlorooctane	129		#	100		129	70-130			
Surrogate: o-Terphenyl	54.9			50.0		110	70-130			
Calibration Blank (P0E2105-CCB1)				Prepared &	Analyzed:	05/21/20				
C6-C12	9.15		mg/kg wet							
>C12-C28	19.6		U							
Surrogate: 1-Chlorooctane	115		н	100		115	70-130			
Surrogate: o-Terphenyl	63.4		0	50.0		127	70-130			
Calibration Check (P0E2105-CCVI)				Prepared &	Analyzed:	05/21/20				
C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	550	25.0	u	500		110	85-115			
Surrogate: 1-Chlorooctane	118		н	100		118	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			

### Project: Matador Florence ST. 23 202H Project Number: 700376.508.01 Project Manager: David Adkins

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E2105 - TX 1005	·····									
Duplicate (P0E2105-DUP1)	Sou	rce: 0E2001	5-08	Prepared &	a Analyzed:	05/21/20				
C6-C12	ND	26.3	mg/kg dıy		10.8				20	
>C12-C28	82.7	26.3	n		77.1			7.05	20	
Surrogate: 1-Chlorooctane	106		U	105		101	70-130			
Surrogate: o-Terphenyl	59.4		и	52.6		113	70-130			
Batch POE2107 - TX 1005	· ·									****
Blank (P0E2107-BLK1)				Prepared: 0	5/21/20 An	alyzed: 05	/23/20			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	и							
>C28-C35	ND	25.0	n							
Surrogate: 1-Chlorooctane	110		11	100		110	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			
LCS (P0E2107-BS1)				Prepared: 0	5/21/20 An	alyzed: 05	/23/20			
C6-C12	1130	25.0	mg/kg wet	0001		113	75-125			
>C12-C28	1250	25,0	11	1000		125	75-125			
Surrogate: 1-Chlorooctane	125		H	100		125	70-130			
Surrogate: o-Terphenyl	58,5		"	50.0		117	70-130			
LCS Dup (P0E2107-BSD1)				Prepared: 0.	5/21/20 An	alyzed: 05/	/23/20			
C6-C12	1120	25,0	mg/kg wet	1000		112	75-125	0.861	20	
>C12-C28	1240	25,0	н	1000		124	75-125	0.667	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	57.2		v	50.0		114	70-130			
Calibration Blank (P0E2107-CCB1)				Prepared: 0:	5/21/20 Ana	alyzed: 05/	23/20			
C6-C12	9.44		mg/kg wet							<u> </u>
>C12-C28	6.34		в							
Surrogate: 1-Chlorooctane	110		. n	100		110	70-130			
Surrogate: o-Terphenyl	59.5		12	50,0		119	70-130			

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

### Permian Basin Environmental Lab, L.P.

	<b>n</b> 1:	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0E2107 - TX 1005				-,						
Calibration Blank (P0E2107-CCB2)				Prepared: (	)5/21/20 A	nalyzed: 03	5/23/20			
C6-C12	12.0		mg/kg wet	1						
>C12-C28	11.5		tı							
Surrogate: 1-Chlorooctune	104		ч	100		104	70-130			
Surrogate: o-Terphenyl	56.4		n	50.0		113	70-130			
Calibration Check (P0E2107-CCV1)				Prepared; (	)5/21/20 A	nalyzed: 05	5/23/20			
C6-C12	551	25,0	mg/kg wet	500		110	85-115			
>C12-C28	564	25.0	ti	500		113	85-115			
Surrogate: 1-Chlorooctane	121		н	100		121	70-130			
Surrogate: o-Terphenyl	55.5		11	50,0		111	70-130			
Calibration Check (P0E2107-CCV2)				Prepared: 0	5/21/20 Ai	nalyzed: 05	/23/20			
C6-C12	546	25.0	mg/kg wet	500		109	85-115			
>C12-C28	559	25.0	14	500		112	85-115			
Surrogate: 1-Chlorooctane	122		ų	100		122	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			
Calibration Check (P0E2107-CCV3)				Prepared: 0	5/21/20 Ar	alyzed: 05	/24/20			
C6-C12	507	25.0	mg/kg wet	500		101	85-115			
>C12-C28	540	25.0	U.	500		108	85-115			
Surrogate: 1-Chlorooctane	115		v	100		115	70-130			
Surrogate: o-Terphonyl	51.6		"	50.0		103	70-130			
Matrix Spike (P0E2107-MS1)	Sour	ce: 0E21004	-04	Prepared: 0	5/21/20 An	alyzed: 05/	/24/20			
C6-C12	1120	25.0	mg/kg dry	1000	18.3	111	75-125			
>C12-C28	1230	25.0	я	1000	ND	123	75-125			
Surrogaie: 1-Chlorooctane	113		н	100		113	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.3	70-130			

### Project: Matador Florence ST. 23 202H Project Number: 700376.508.01 Project Manager: David Adkins

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

### Permian Basin Environmental Lab, L.P.

· · · · · · · · · · · · · · · · · · ·		Benorting		Suika	Source		%PEC		PPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Linit	Notes
Batch P0E2107 - TX 1005									**************************************	
Matrix Spike Dup (P0E2107-MSD1)	Sour	e: 0E21004	-04	Prepared: (	)5/21/20 Ai	alyzed: 05	/24/20			
C6-C12	1110	25.0	mg/kg dry,	1000	18,3	109	75-125	1.31	20	
>C12-C28	1230	25.0	n	1000	ND	123	75-125	0.742	20	
Surrogate: 1-Chlorooctane			н	100		Ш	70-130			
Surrogate: o-Terphenyl	44.3		н	50,0		88.6	70-130			

Permian Basin Environmental Lab, L.P.

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Page 20 of 23

1	
	Talon LPE
	2901 S. State Hwy 349
	Midland TX, 79706

### Project: Matador Florence ST. 23 202H Project Number: 700376.508.01 Project Manager: David Adkins

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI	Received on Ice
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Sun Burron Report Approved By:

5/28/2020

Brent Barron, Laboratory Director/Technical Director

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Page 142 of 143

Bill: Plains All Americas Relinquished by: 5-20 Relinquished by: 5-20 Relinquished by: 5-20 Da	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Telephone No:     ST 5-4       Sampler Signature:     M       ORDER#:     OC 7001U       ORDER#:     OC 7001U       Image: Second State     FIELD CODE       S-1     2.5 ¹	Project Manager, D. A.O.I. Company Name Talox Company Address: UDB w City/Stäte/Zip: Portesia,
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Lone Star		RUSH TAT (Pra-Schedule) 24, 45, 72 hrs	Page 22 of 23

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Page 143 of 143

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