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



Analytical Report

Prepared for:

Aaron Pachlhofer Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland, TX 79707

Project: Gossett '20' Battery Project Number: [none] Location: Eddy County, NM

Lab Order Number: 7D21003



NELAP/TCEQ # T104704156-16-7

Report Date: 05/02/17

Project: Gossett '20' Battery Project Number: [none] Project Manager: Aaron Pachlhofer

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 Surface	7D21003-01	Soil	04/20/17 12:15	04-21-2017 10:00
S-1 1"	7D21003-02	Soil	04/20/17 12:20	04-21-2017 10:00
S-2 Surface	7D21003-03	Soil	04/20/17 12:22	04-21-2017 10:00
S-2 1"	7D21003-04	Soil	04/20/17 12:23	04-21-2017 10:00

S-1 Surface

7D21003-01 (Soil) Reporting Units Dilution Batch Prepared Analyzed Method Notes Result Limit Analyte Permian Basin Environmental Lab, L.P. Organics by GC ND P7D2803 Benzene 0.0227 mg/kg dry 20 04/26/17 04/27/17 EPA 8021B Toluene ND 0.0455 mg/kg dry 20 P7D2803 EPA 8021B 04/26/17 04/27/17 Ethylbenzene 0.101 0.0227 mg/kg dry 20 P7D2803 04/26/17 04/27/17 EPA 8021B 0.342 mg/kg dry 20 P7D2803 EPA 8021B Xylene (p/m) 0.0455 04/26/17 04/27/17 0.122 0.0227 mg/kg dry 20 P7D2803 04/26/17 04/27/17 EPA 8021B Xylene (o) Surrogate: 4-Bromofluorobenzene 101 % 75-125 P7D2803 04/26/17 04/27/17 EPA 8021B EPA 8021B Surrogate: 1,4-Difluorobenzene P7D2803 04/26/17 04/27/17 75.2 % 75-125 **General Chemistry Parameters by EPA / Standard Methods** mg/kg dry 1 P7D2103 EPA 300.0 Chloride 5.01 1.14 04/21/17 04/24/17 % 1 P7D2501 % calculation % Moisture 12.0 0.1 04/25/17 04/25/17 Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M C6-C12 41.6 28.4 mg/kg dry 1 P7D2403 04/21/17 04/24/17 TPH 8015M >C12-C28 106 mg/kg dry 1 P7D2403 04/21/17 TPH 8015M 28.4 04/24/17>C28-C35 ND P7D2403 TPH 8015M 28.4 mg/kg dry 1 04/21/17 04/24/17 Surrogate: 1-Chlorooctane P7D2403 04/21/17 04/24/17 TPH 8015M 106 % 70-130 Surrogate: o-Terphenyl 101 % P7D2403 04/21/17 04/24/17 TPH 8015M 70-130 calc 28.4 mg/kg dry [CALC] **Total Petroleum Hydrocarbon** 148 1 04/21/17 04/24/17 C6-C35

Project: Gossett '20' Battery Project Number: [none] Project Manager: Aaron Pachlhofer

S-1 1" 7D21003-02 (Soil) Reporting Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes Permian Basin Environmental Lab, L.P. Organics by GC 20 P7D2803 EPA 8021B Benzene ND 0.0238 mg/kg dry 04/26/17 04/27/17 20 P7D2803 EPA 8021B Toluene 0.201 mg/kg dry 0.0476 04/26/17 04/27/17 EPA 8021B Ethylbenzene 0.845 0.0238 mg/kg dry 20 P7D2803 04/26/17 04/27/17 P7D2803 EPA 8021B 2.00 mg/kg dry 20 04/26/17 Xylene (p/m) 04/27/17 0.0476 EPA 8021B Xylene (o) 20 P7D2803 0.875 0.0238 mg/kg dry 04/26/17 04/27/17 S-GC Surrogate: 1,4-Difluorobenzene 67.8 % 75-125 P7D2803 04/26/17 04/27/17 EPA 8021B EPA 8021B Surrogate: 4-Bromofluorobenzene 93.6% 75-125 P7D2803 04/26/17 04/27/17 General Chemistry Parameters by EPA / Standard Methods EPA 300.0 mg/kg dry 1 P7D2103 Chloride 10.7 1.19 04/21/17 04/24/17 % Moisture 16.0 0.1 % 1 P7D2501 04/25/17 04/25/17 % calculation Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M 5 P7D2505 TPH 8015M C6-C12 205 mg/kg dry 04/24/17 149 04/24/17 5 P7D2505 TPH 8015M >C12-C28 1430 149 mg/kg dry 04/24/17 04/24/17>C28-C35 297 149 mg/kg dry 5 P7D2505 04/24/17 04/24/17 TPH 8015M

P7D2505 TPH 8015M Surrogate: 1-Chlorooctane 81.0 % 70-130 04/24/1704/24/17 P7D2505 04/24/17 TPH 8015M Surrogate: o-Terphenyl 86.9% 70-130 04/24/17 1930 5 **Total Petroleum Hydrocarbon** 149 mg/kg dry [CALC] 04/24/17 04/24/17 calc C6-C35

Permian Basin Environmental Lab, L.P.

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Project: Gossett '20' Battery Project Number: [none] Project Manager: Aaron Pachlhofer

S-2 Surface

7D21003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u> </u>	Pern	nian Basin E	nvironmer	ntal Lab. 1	 .				
Organics by GC	101				•				
Benzene	ND	0.0235	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
Toluene	0.0532	0.0471	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
Ethylbenzene	0.140	0.0235	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
Xylene (p/m)	0.507	0.0471	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
Xylene (o)	0.202	0.0235	mg/kg dry	20	P7E0107	04/28/17	04/28/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.0 %	75-1	25	P7E0107	04/28/17	04/28/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.9 %	75-1	25	P7E0107	04/28/17	04/28/17	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	s							
Chloride	97.2	1.18	mg/kg dry	1	P7D2103	04/21/17	04/24/17	EPA 300.0	
% Moisture	15.0	0.1	%	1	P7D2501	04/25/17	04/25/17	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	1250	294	mg/kg dry	10	P7D2505	04/24/17	04/24/17	TPH 8015M	
>C12-C28	7340	294	mg/kg dry	10	P7D2505	04/24/17	04/24/17	TPH 8015M	
>C28-C35	1280	294	mg/kg dry	10	P7D2505	04/24/17	04/24/17	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-1	30	P7D2505	04/24/17	04/24/17	TPH 8015M	
Surrogate: o-Terphenyl		86.0 %	70-1	30	P7D2505	04/24/17	04/24/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9860	294	mg/kg dry	10	[CALC]	04/24/17	04/24/17	calc	

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Project: Gossett '20' Battery Project Number: [none] Project Manager: Aaron Pachlhofer

S-2 1''

7D21003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	1ian Basin E	nvironmer	ıtal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.0241	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
Toluene	0.103	0.0482	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
Ethylbenzene	0.201	0.0241	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
Xylene (p/m)	0.840	0.0482	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
Xylene (o)	0.422	0.0241	mg/kg dry	20	P7D2803	04/26/17	04/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		75.6 %	75-1	25	P7D2803	04/26/17	04/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.2 %	75-1	25	P7D2803	04/26/17	04/27/17	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	S							
Chloride	27.3	1.20	mg/kg dry	1	P7D2103	04/21/17	04/24/17	EPA 300.0	
% Moisture	17.0	0.1	%	1	P7D2501	04/25/17	04/25/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	151	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
>C12-C28	866	151	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
>C28-C35	214	151	mg/kg dry	5	P7D2505	04/24/17	04/24/17	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-1	30	P7D2505	04/24/17	04/24/17	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-1	30	P7D2505	04/24/17	04/24/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1080	151	mg/kg dry	5	[CALC]	04/24/17	04/24/17	calc	

Organics by GC - 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 P7D2803 - General Preparation (GC)										
Blank (P7D2803-BLK1)				Prepared: 0	04/26/17 A	nalyzed: 04	/27/17			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0527		"	0.0600		87.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0481		"	0.0600		80.2	75-125			
LCS (P7D2803-BS1)				Prepared: 0	04/26/17 A	nalyzed: 04	/27/17			
Benzene	0.0850	0.00100	mg/kg wet	0.100		85.0	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	70-130			
Xylene (p/m)	0.163	0.00200	"				70-130			
Xylene (o)	0.0858	0.00100					70-130			
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0600		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0614		"	0.0600		102	75-125			
LCS Dup (P7D2803-BSD1)				Prepared: 0	04/26/17 A	nalyzed: 04	/27/17			
Benzene	0.0813	0.00100	mg/kg wet	0.100		81.3	70-130	4.44	20	
Toluene	0.0996	0.00200	"	0.100		99.6	70-130	7.62	20	
Ethylbenzene	0.0922	0.00100	"	0.100		92.2	70-130	7.56	20	
Xylene (p/m)	0.153	0.00200	"				70-130		20	
Xylene (o)	0.0816	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0628		"	0.0600		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.0638		"	0.0600		106	75-125			
Matrix Spike (P7D2803-MS1)	Source: 7D20006-01 Prepared: 04/26/17 Analyzed: 04/27/17									
Benzene	0.118	0.00109	mg/kg dry	0.109	ND	109	80-120			
Toluene	0.108	0.00217	"	0.109	ND	99.8	80-120			
Ethylbenzene	0.101	0.00109	"	0.109	ND	92.5	80-120			
Xylene (p/m)	0.143	0.00217	"		ND		80-120			
Xylene (o)	0.113	0.00109	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0700		"	0.0652		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0681		"	0.0652		104	75-125			

Organics by GC - 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 P7D2803 - General Preparation (G	C)									
Matrix Spike Dup (P7D2803-MSD1)	Sour		01	Prepared: 0	04/26/17 A	Analyzed: 04/27/17				
Benzene	0.129	0.00109	mg/kg dry	0.109	ND	119	80-120	8.68	20	
Toluene	0.132	0.00217	"	0.109	ND	121	80-120	19.2	20	R2

Ethylbenzene	0.127	0.00109	"	0.109	ND	116	80-120	22.9	20	R2
Xylene (p/m)	0.195	0.00217	"		ND		80-120		20	
Xylene (o)	0.120	0.00109	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0756		"	0.0652		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0712		"	0.0652		109	75-125			

Batch P7E0107 - General Preparation (GC)

Blank (P7E0107-BLK1)		Prepared & Analyzed: 04/28/17									
Benzene	ND	0.00100	mg/kg wet								
Toluene	ND	0.00200	"								
Ethylbenzene	ND	0.00100	"								
Xylene (p/m)	ND	0.00200	"								
Xylene (o)	ND	0.00100	"								
Surrogate: 1,4-Difluorobenzene	0.0491		"	0.0600	81.9	75-125					
Surrogate: 4-Bromofluorobenzene	0.0580		"	0.0600	96.7	75-125					
LCS (P7E0107-BS1)				Prepared & Anal	yzed: 04/28/17						

Benzene	0.0849	0.00100 mg/kg	g wet 0.100	84.9	70-130
Toluene	0.0973	0.00200	0.100	97.3	70-130
Ethylbenzene	0.112	0.00100 "	0.100	112	70-130
Xylene (p/m)	0.222	0.00200			70-130
Xylene (o)	0.108	0.00100 "			70-130
Surrogate: 1,4-Difluorobenzene	0.0632	,	0.0600	105	75-125
Surrogate: 4-Bromofluorobenzene	0.0671	,	0.0600	112	75-125

Organics by GC - 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 P7E0107 - General Preparation (GC)										

LCS Dup (P7E0107-BSD1)		Prepared & Analyzed: 04/28/17									
Benzene	0.0832	0.00100	mg/kg wet	0.100	83.2	70-130	1.96	20			
Toluene	0.0998	0.00200	"	0.100	99.8	70-130	2.50	20			
Ethylbenzene	0.125	0.00100	"	0.100	125	70-130	10.9	20			
Xylene (p/m)	0.214	0.00200	"			70-130		20			
Xylene (o)	0.104	0.00100	"			70-130		20			
Surrogate: 4-Bromofluorobenzene	0.0696		"	0.0600	116	75-125					
Surrogate: 1,4-Difluorobenzene	0.0650		"	0.0600	108	75-125					

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 P7D2103 - *** DEFAULT PREP ***										
Blank (P7D2103-BLK1)				Prepared: (04/20/17 A	nalyzed: 04	/21/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7D2103-BS1)				Prepared: (04/20/17 A	nalyzed: 04	/21/17			
Chloride	384	1.00	mg/kg wet	400		96.0	80-120			
LCS Dup (P7D2103-BSD1)				Prepared: ()4/20/17 A	nalyzed: 04	/21/17			
Chloride	406	1.00	mg/kg wet	400		101	80-120	5.50	20	
Duplicate (P7D2103-DUP1)	Source: 7D20009-01 Pro		Prepared: ()4/20/17 A	nalyzed: 04	/21/17				
Chloride	4220	27.2	mg/kg dry		4270			1.33	20	
Duplicate (P7D2103-DUP2)	Sou	ce: 7D21002	2-01	Prepared: ()4/20/17 A	nalyzed: 04				
Chloride	2160	10.5	mg/kg dry		2180			1.07	20	
Matrix Spike (P7D2103-MS1)	Sou	ce: 7D20009	0-01	Prepared: (04/20/17 A	nalyzed: 04	/21/17			
Chloride	6230	27.2	mg/kg dry	2170	4270	90.2	80-120			
Batch P7D2501 - *** DEFAULT PREP ***										
				Prepared &	z Analyzed:	04/25/17				
% Moisture	ND	0.1	%							
Duplicate (P7D2501-DUP1)	Source: 7D21001-01 Prepa		Prepared &	Analyzed:	04/25/17					
% Moisture	5.0	0.1	%		6.0			18.2	20	

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 P7D2403 - TX 1005										
Blank (P7D2403-BLK1)				Prepared &	Analyzed:	04/21/17				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		92.9	70-130			
LCS (P7D2403-BS1)				Prepared &	Analyzed:	04/21/17				
C6-C12	788	25.0	mg/kg wet	1000		78.8	75-125			
>C12-C28	760	25.0	"	1000		76.0	75-125			
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.7	70-130			
LCS Dup (P7D2403-BSD1)				Prepared &	Analyzed:	04/21/17				
C6-C12	815	25.0	mg/kg wet	1000		81.5	75-125	3.29	20	
>C12-C28	776	25.0	"	1000		77.6	75-125	2.08	20	
Surrogate: 1-Chlorooctane	97.2		"	100		97.2	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.6	70-130			
Matrix Spike (P7D2403-MS1)	Sou	rce: 7D20006	5-01	Prepared: (04/21/17 A	nalyzed: 04	/24/17			
C6-C12	411	27.2	mg/kg dry	1090	20.5	36.0	75-125			QM-07
>C12-C28	426	27.2	"	1090	24.1	37.0	75-125			QM-07
Surrogate: 1-Chlorooctane	55.1		"	109		50.7	70-130			S-GCI
Surrogate: o-Terphenyl	25.4		"	54.3		46.7	70-130			S-GCI
Matrix Spike Dup (P7D2403-MSD1)	Sou	rce: 7D20006	5-01	Prepared: (04/21/17 A	nalyzed: 04	/24/17			
C6-C12	415	27.2	mg/kg dry	1090	20.5	36.3	75-125	0.847	20	QM-07
>C12-C28	428	27.2	"	1090	24.1	37.2	75-125	0.618	20	QM-07
Surrogate: 1-Chlorooctane	55.0		"	109		50.6	70-130			S-GCI
Surrogate: o-Terphenyl	25.3		"	54.3		46.6	70-130			S-GCI

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 P7D2505 - TX 1005										
Blank (P7D2505-BLK1)				Prepared &	Analyzed:	04/24/17				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.2		"	100		82.2	70-130			
Surrogate: o-Terphenyl	44.8		"	50.0		89.5	70-130			
LCS (P7D2505-BS1)				Prepared &	Analyzed:	04/24/17				
C6-C12	803	25.0	mg/kg wet	1000		80.3	75-125			
>C12-C28	851	25.0	"	1000		85.1	75-125			
Surrogate: 1-Chlorooctane	88.9		"	100		88.9	70-130			
Surrogate: o-Terphenyl	41.7		"	50.0		83.4	70-130			
LCS Dup (P7D2505-BSD1)				Prepared &	Analyzed:	04/24/17				
C6-C12	873	25.0	mg/kg wet	1000		87.3	75-125	8.32	20	
>C12-C28	1070	25.0	"	1000		107	75-125	23.1	20	R
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	52.1		"	50.0		104	70-130			
Matrix Spike (P7D2505-MS1)	Sou	rce: 7D24005	5-01	Prepared: (04/24/17 A	nalyzed: 04	/25/17			
C6-C12	863	28.1	mg/kg dry	1120	ND	76.8	75-125			
>C12-C28	1100	28.1	"	1120	17.8	96.1	75-125			
Surrogate: 1-Chlorooctane	118		"	112		105	70-130			
Surrogate: o-Terphenyl	52.2		"	56.2		92.8	70-130			
Matrix Spike Dup (P7D2505-MSD1)	Sou	rce: 7D24005	5-01	Prepared: ()4/24/17 A	nalyzed: 04	/25/17			
C6-C12	819	28.1	mg/kg dry	1120	ND	72.9	75-125	5.28	20	QM-0
>C12-C28	1030	28.1	"	1120	17.8	90.0	75-125	6.55	20	
Surrogate: 1-Chlorooctane	113		"	112		101	70-130			
Surrogate: o-Terphenyl	50.2		"	56.2		89.3	70-130			

Notes and Definitions

S-GC1	Surrogate recovery outside of control limits. A second analysis confirmed the original resu	ults

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

R2 The RPD exceeded the acceptance limit.

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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.
- 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:

Sun Barron

5/2/2017

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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Permian Basin Environmental Lab, L.P.

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