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



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Stakeholder Midstream

Project Number: 9021 Location: Pollos Hermanos

Lab Order Number: 8B27007



NELAP/TCEQ # T104704516-17-8

Report Date: 03/02/18

Project: Stakeholder Midstream

13000 West County Road 100

Project Number: 9021

Odessa TX, 79765

Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01-North 0"- 6"	8B27007-01	Soil	02/26/18 11:35	02-27-2018 10:50
02-North 6" - 12"	8B27007-02	Soil	02/26/18 11:40	02-27-2018 10:50
03-North 1'-2'	8B27007-03	Soil	02/26/18 11:45	02-27-2018 10:50

Project: Stakeholder Midstream

13000 West County Road 100

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Odessa TX, 79765

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01-North 0"- 6" 8B27007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Toluene	0.0118	0.0105 mg/kg dry 1		1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-1	25	P8C0102	03/01/18	03/01/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.0 %	75-1	25	P8C0102	03/01/18	03/01/18	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	312	1.05	mg/kg dry	1	P8B2710	02/27/18	02/28/18	EPA 300.0	
% Moisture	5.0	0.1	%	1	P8B2801	02/28/18	02/28/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
>C12-C28	92.9	26.3	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
Surrogate: 1-Chlorooctane		88.7 %	70-1	30	P8B2708	02/27/18	02/27/18	TPH 8015M	
Surrogate: o-Terphenyl		94.6 %	70-130		P8B2708	02/27/18	02/27/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	92.9	26.3	mg/kg dry	1	[CALC]	02/27/18	02/27/18	calc	

E Tech Environmental & Safety Solutions, Inc.

Project: Stakeholder Midstream

13000 West County Road 100 Odessa TX, 79765 Project Number: 9021 Project Manager: Tim McMinn Fax: (432) 563-2213

02-North 6" - 12" 8B27007-02 (Soil)

Analyte	Result	Reporting Limit Units Dilution		Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environmen	tal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Toluene	0.0114	0.0108	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P8C0102	03/01/18	03/01/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.6 %	75-1.	25	P8C0102	03/01/18	03/01/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-1.	25	P8C0102	03/01/18	03/01/18	EPA 8021B	
General Chemistry Parameters by EPA / S	Standard Method	ls							
Chloride	265	1.08	mg/kg dry	1	P8B2710	02/27/18	02/28/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8B2801	02/28/18	02/28/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	26.9	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry 1		P8B2708	02/27/18	02/27/18	TPH 8015M	
Surrogate: 1-Chlorooctane		76.2 %	70-1.	30	P8B2708	02/27/18	02/27/18	TPH 8015M	
Surrogate: o-Terphenyl		81.3 %	70-1.	30	P8B2708	02/27/18	02/27/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9 mg/kg dry 1			[CALC]	02/27/18	02/27/18	calc	

Project: Stakeholder Midstream

13000 West County Road 100

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03-North 1'-2' 8B27007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	nvironmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.0213	mg/kg dry	20	P8C0102	03/01/18	03/01/18	EPA 8021B	
Toluene	ND	0.213	mg/kg dry	20	P8C0102	03/01/18	03/01/18	EPA 8021B	
Ethylbenzene	ND	0.106	mg/kg dry	20	P8C0102	03/01/18	03/01/18	EPA 8021B	
Xylene (p/m)	ND	ND 0.426 mg/kg d			P8C0102	03/01/18	03/01/18	EPA 8021B	
Xylene (o)	ND	0.213	mg/kg dry	20	P8C0102	03/01/18	03/01/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-1	25	P8C0102	03/01/18	03/01/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-1	25	P8C0102	03/01/18	03/01/18	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	<u>s</u>							
Chloride	385	1.06	mg/kg dry	1	P8B2710	02/27/18	02/28/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8B2801	02/28/18	02/28/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	26.6	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
>C12-C28	35.9	26.6	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P8B2708	02/27/18	02/27/18	TPH 8015M	
Surrogate: 1-Chlorooctane		87.1 %	87.1 % 70-130		P8B2708	02/27/18	02/27/18	TPH 8015M	
Surrogate: o-Terphenyl		93.1 %	70-1	30	P8B2708	02/27/18	02/27/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35.9	26.6	mg/kg dry	1	[CALC]	02/27/18	02/27/18	calc	

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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 P8C0102 - General Preparation	on (GC)									
Blank (P8C0102-BLK1)				Prepared & A	nalyzed: (03/01/18				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0594		"	0.0600		98.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0647		"	0.0600		108	75-125			
LCS (P8C0102-BS1)				Prepared & A	nalyzed: (03/01/18				
Benzene	0.0997	0.00100	mg/kg wet	0.100	<u> </u>	99.7	70-130			
Toluene	0.106	0.0100	"	0.100		106	70-130			
Ethylbenzene	0.105	0.00500	"	0.100		105	70-130			
Xylene (p/m)	0.188	0.0200	"				70-130			
Xylene (o)	ND	0.0100	"				70-130			
Surrogate: 4-Bromofluorobenzene	0.0628		"	0.0600		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.0489		"	0.0600		81.5	75-125			
LCS Dup (P8C0102-BSD1)				Prepared & A	nalyzed: (03/01/18				
Benzene	0.0892	0.00100	mg/kg wet	0.100		89.2	70-130	11.1	20	
Toluene	0.0983	0.0100	"	0.100		98.3	70-130	7.60	20	
Ethylbenzene	0.114	0.00500	"	0.100		114	70-130	7.81	20	
Xylene (p/m)	0.217	0.0200	"				70-130		20	
Xylene (o)	ND	0.0100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0565		"	0.0600		94.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.0519		"	0.0600		86.5	75-125			
Duplicate (P8C0102-DUP1)	Sour	rce: 8B27007	7-03	Prepared & A	nalyzed: (03/01/18				
Benzene	ND	0.0213	mg/kg dry		ND				20	
Гoluene	ND	0.213	"		0.0691				20	
Ethylbenzene	ND	0.106	"		ND				20	
Kylene (p/m)	ND	0.426	"		ND				20	
Xylene (o)	ND	0.213	"		ND				20	
Surrogate: 1,4-Difluorobenzene	0.0538		"	0.0638		84.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0576		"	0.0638		90.3	75-125			

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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 P8B2710 - *** DEFAULT PREP ***										
Blank (P8B2710-BLK1)				Prepared: (02/27/18 A	nalyzed: 02	2/28/18			
Chloride	ND	1.00	mg/kg wet							
LCS (P8B2710-BS1)				Prepared: (02/27/18 A	nalyzed: 02	2/28/18			
Chloride	415	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P8B2710-BSD1)				Prepared: (02/27/18 A	nalyzed: 02	2/28/18			
Chloride	414	1.00	mg/kg wet	400		104	80-120	0.130	20	
Duplicate (P8B2710-DUP1)	Sou	rce: 8B24010	-02	Prepared: (02/27/18 A	nalyzed: 02	2/28/18			
Chloride	17200	53.8	mg/kg dry		17100			1.04	20	
Duplicate (P8B2710-DUP2)	Sou	rce: 8B26004	-05	Prepared: (02/27/18 A	nalyzed: 02	2/28/18			
Chloride	179	1.08	mg/kg dry		247			32.1	20	
Matrix Spike (P8B2710-MS1)	Sou	rce: 8B24010	-02	Prepared: 02/27/18 Analyzed: 02/28/18						
Chloride	22900	53.8	mg/kg dry	5380	17100	109	80-120			
Batch P8B2801 - *** DEFAULT PREP ***										
Blank (P8B2801-BLK1)				Prepared &	& Analyzed:	02/28/18				
% Moisture	ND	0.1	%	•						
Duplicate (P8B2801-DUP1)	Sou	rce: 8B26004	-26	Prepared &	& Analyzed:	02/28/18				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P8B2801-DUP2)	Source: 8B27007-03 Pre				Prepared & Analyzed: 02/28/18					
% Moisture	6.0	0.1	%		6.0			0.00	20	

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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 P8B2708 - General Preparation (GC))									
Blank (P8B2708-BLK1)				Prepared &	z Analyzed:	02/27/18				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.1		"	100		99.1	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			
LCS (P8B2708-BS1)				Prepared &	Analyzed:	02/27/18				
C6-C12	1110	25.0	mg/kg wet	1000		111	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			
LCS Dup (P8B2708-BSD1)				Prepared &	Analyzed:	02/27/18				
C6-C12	1120	25.0	mg/kg wet	1000		112	75-125	0.127	20	
>C12-C28	1140	25.0	"	1000		114	75-125	0.0272	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			
Calibration Blank (P8B2708-CCB1)				Prepared &	z Analyzed:	02/27/18				
C6-C12	23.2		mg/kg wet							
>C12-C28	14.4		"							
Surrogate: 1-Chlorooctane	97.7		"	100		97.7	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			
Calibration Check (P8B2708-CCV1)				Prepared &	Analyzed:	02/27/18				
C6-C12	495	25.0	mg/kg wet	500		99.0	85-115			
>C12-C28	509	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		98.1	70-130			

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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 P8B2708 - General Preparation (GC)										
Calibration Check (P8B2708-CCV3)				Prepared: (02/27/18 A	nalyzed: 02	/28/18			
C6-C12	487	25.0	mg/kg wet	500		97.3	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.6	70-130			
Matrix Spike (P8B2708-MS1)	Sou	rce: 8B26004	1-33	Prepared: (02/27/18 A	nalyzed: 02				
C6-C12	990	27.2	mg/kg dry	1090	25.9	88.7	75-125			
>C12-C28	1020	27.2	"	1090	13.5	92.1	75-125			
Surrogate: 1-Chlorooctane	120		"	109		111	70-130			
Surrogate: o-Terphenyl	50.9		"	54.3		93.7	70-130			
Matrix Spike Dup (P8B2708-MSD1)	Sou	rce: 8B26004	1-33	Prepared: (02/27/18 A	nalyzed: 02	/28/18			
C6-C12	1060	27.2	mg/kg dry	1090	25.9	95.5	75-125	7.32	20	
>C12-C28	1080	27.2	"	1090	13.5	98.2	75-125	6.42	20	
Surrogate: 1-Chlorooctane	127		"	109		117	70-130			
Surrogate: o-Terphenyl	51.8		"	54.3		95.2	70-130			

Project: Stakeholder Midstream

13000 West County Road 100

Matrix Spike

Duplicate

MS

Dup

Project Number: 9021

Odessa TX, 79765

Project Manager: Tim McMinn

Notes and Definitions

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

	Burnon		
Report Approved By:		Date:	3/2/2018

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.

1400 Rankin Hwy

Phone: 132-686-7235

Midland Texas 79701

Project Manager: Tim McMinn

Company Address: P.O. Box 8469 Company Name: Etech Environmental & Safety Solutions, Inc.

Sampler Signature: COR City/State/Zip: Midland, Texas 79708

email: Fred. @etechenv.com

Project Name: Stakeholder Midstran

Area:

Project #: ?oZ/

Project Loc: Pellos Hernano

PQ#:

Bill Etech

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