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DELINEATION INVESTIGATION REPORT

Newkumet Federal #1 Site Release Lea County, New Mexico

December 15, 2016

Prepared for:

Siana Operating LLC 12012 Wickchester Lane, Ste 410 Houston, Texas 77079

Prepared by:

Charger Services, Inc. 3300 N. A Street, Bldg 7 Midland, Texas 79705

Coty Woolf

Environmental Professional

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1.0 EXECUTIVE SUMMARY

This report is submitted to Siana Operating LLC (Siana), by Charger Services, Inc., (Charger), to present the delineation investigation of a crude oil and produced water spill at the Newkumet Federal #1 Site, located in Lea County, New Mexico. The spill occurred before March 24, 2016, because of equipment failure. An unknown quantity of oil and produced water were lost at the Site and covering approximately 9,200 sq. ft. of the facility. Zero bbl of oil and water were recovered with unknown total lost.

On March 24, 2016, Charger personnel arrived at the Newkumet Fed #1 Site to initiate an investigation into the release. While at the site, Charger personnel collected photo documentation of the incident and established a work plan with Siana field personnel.

On October 11, 2016, Charger personnel delineated the Site. The samples were analyzed for BTEX, TPH, and Chlorides. The laboratory ran samples consecutively until below NMOCD action limits for each sample point.

Remediation recommendations will be submitted in a separate proposal.

2.0 INTRODUCTON

This report is submitted to Siana Operating LLC (Siana), by Charger Services, Inc., (Charger), to present the delineation investigation of a crude oil and produced water spill at the Newkumet Federal #1 Site, located in Lea County, New Mexico. The spill occurred before March 24, 2016, because of equipment failure. An unknown quantity of oil and produced water were lost at the Site and covering approximately 9,200 sq. ft. of the facility. Zero bbl of oil and water were recovered with unknown total lost. The geodetic position for the spill is 32°19'12.47"N, 103°27'6.26"W. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

2.1 Setting

The setting is as follows:

- The Site is located approximately 19 miles southwest of Eunice, in Lea County, New Mexico;
- The elevation is approximately 3,375 feet above mean sea level (MSL);
- The topography is slightly undulating and slopes to the east;
- The nearest water well is located about 0.7 miles northeast and is undocumented;
- The closet surface water feature is a playa lake (seasonal) located about 3.0 miles east of the Site;
- Runoff is to the north and east.

3.0 SPILL INVESTIGATION

On March 24, 2016, Charger personnel arrived at the Site to initiate an investigation into the crude oil and produced water release. While at the Site, Charger personnel collected photo documentation of the releases and established a work plan.

On October 11, 2016, Charger personnel used an air rotary drill to collect soil samples at two (2) boring locations. The samples were collected at 2 ft, 5ft, 10 ft, etc. to 100 foot below ground surface (bgs) and analyzed by Permian Basin Environmental Lab, LP, (PBELAB) for total petroleum hydrocarbons (TPH) by method 8015M, BTEX by method 8021B, and Chlorides by method E-300.

The laboratory reported chlorides concentrations above the NMOCD action level of 250 milligrams per kilogram (mg/kg) in samples down to 20 ft bgs In sample SB-1 and down to 5 ft bgs in sample SB-2. Table 1 presents a summary of the laboratory analysis. Appendix B presents the laboratory reports.

4.0 RECOMMENDATION

Remediation recommendations will be submitted in a separate proposal.

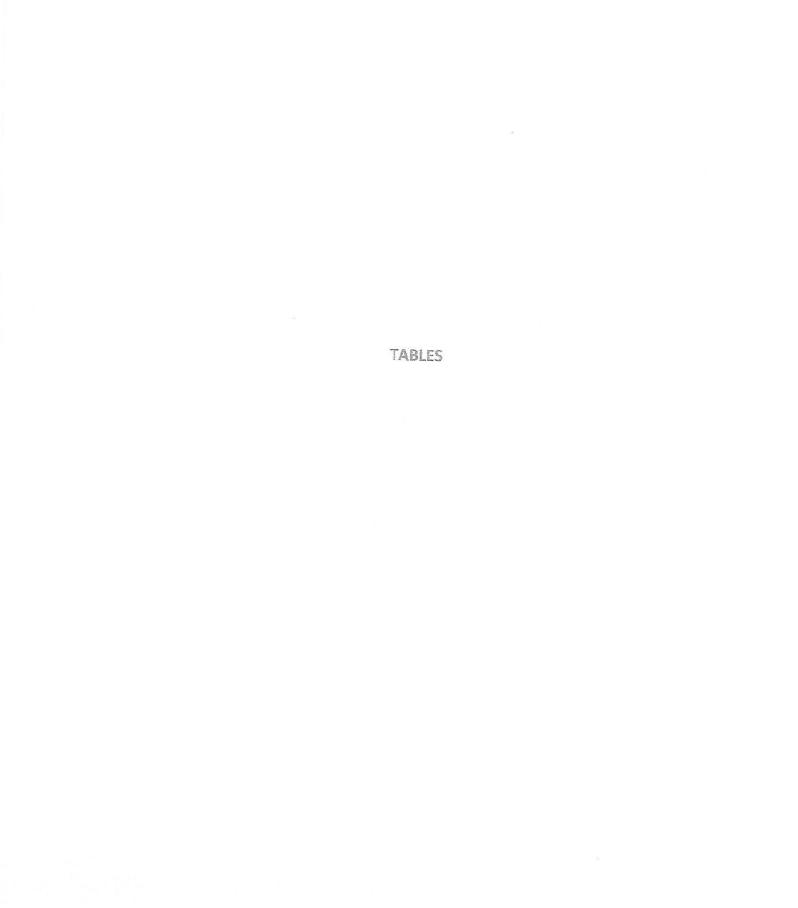


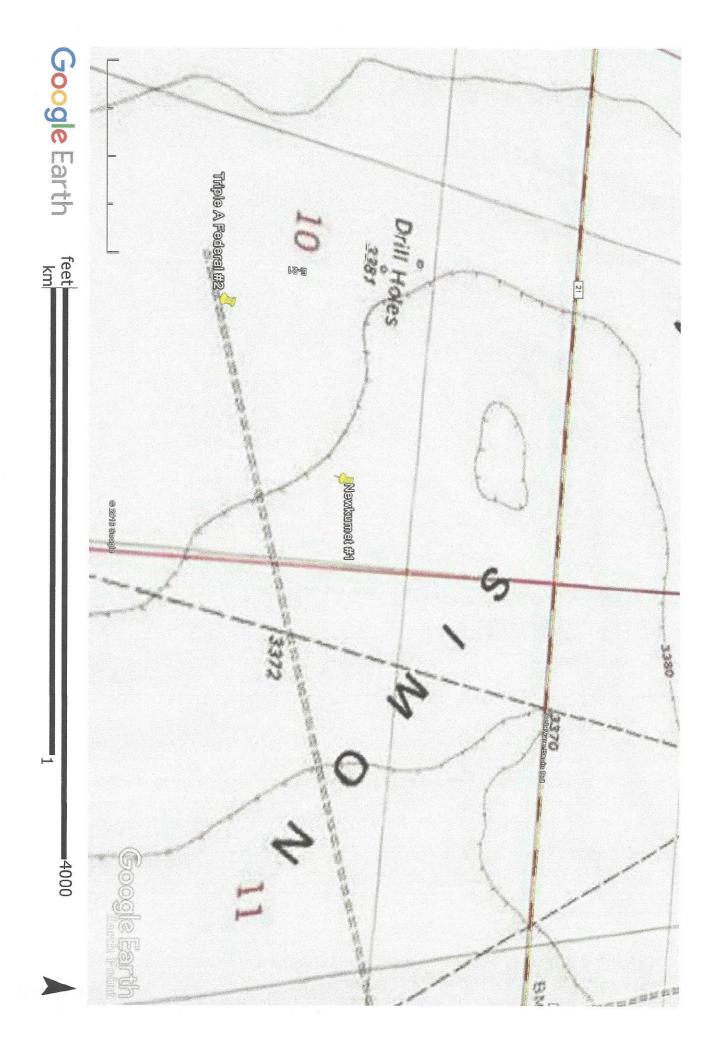
Table 1 Soil Samples Analytical Summary Siana Oil and Gas, New Kumet Federal #1 Lea County, New Mexico

Boring	Depth Feet BGS	Date	Chloride mg/Kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene mg/kg	GRO mg/Kg	DRO mg/Kg	Oil mg/Kg	Total TPH mg/Kg
RRAL:											5,000
SB-1	2 - 3	10/11/2016	68.1	<0.00112	<0.00225	<0.00112	<0.00225	1,455	2,646	422	4,522
	5 - 6	10/11/2016	273	-		-		<26.596	31.0	<26.596	31.0
	10 - 11	10/11/2016	2,530	-		_	-	-	_	_	0
	15 - 16	10/11/2016	253	-	1-0			-	-	-	0
	20 - 21	10/11/2016	333					_			0
	25 - 26	10/11/2016	249	-	-	_		A	-	-	0
	30 - 31	10/11/2016	150	-	-	-	-	-		-	0
SB-2	2 - 3	10/11/2016	29.6	<0.00109	<0.00217	<0.00109	<0.00217	101	1,241	78.5	1,421
	5 - 6	10/11/2016	276		-			122	_	_	0
	10 - 11	10/11/2016	55.2	-	-	-		_	-	-	0
	15 - 16	10/11/2016	87.8	-	-	-		122	-	_	0
	8 9220										

Notes: Analysis performed by Prmian Basin Environmental Lab, Midland, Texas Samples analyzed via EPA method SW-8015M (TPH) and SW-300 (chloride).

Depth measurements are in feet below ground surface (bgs).
All concentrations are in milligrams per kilogram (mg/Kg) equivalent to parts per million (ppm).









Appendix A

Site Name: Siana Newkumet Fed #1 Location: Lea County, NM Job Number: 16-0401 Boring ID: SB-1 Driller: Scarborough Drilling Date: 10/11/2016 **Drill Method:** Air Rotary Geologist: A. Pachlhofer Latitude: 32°19'12.47"N 103°27'6.26"W Longitude:

Depth	Time	PID (ppm)	USCS	Munsell Color	Description
Surface					
2	13:00	0.0	СН	Medium brown/slight red	Organic silt & clays/top soil with angular cobbles of caliche
5	13:05	0.0	SM	Pinkish brown	Sand with fines/silts & clays/fine ground caliche
10	13:10	0.0	SM	Light orange	Medium sized sand/25% - 40% fines/silts & clays
15	13:15	0.0	SM	Light orange to tan	Medium sized sand/25% - 40% fines/silts & clays
20	13:20	0.0	SM	Light orange to tan	Medium sized sand/25% - 40% fines/silts & clays
25	13:25	0.0	SP	Orange to light orange	Medium to fine sand/little to no silts or clays
30	13:30	0.0	SP	Orange to light orange	Medium to fine sand/little to no silts or clays

Site Name: Siana Newkumet Fed #1 Location: Lea County, NM Job Number: 16-0401 Boring ID: SB-2 Driller: Scarborough Drilling Date: 10/11/2016 Drill Method: Air Rotary Geologist: A. Pachlhofer Latitude: 32°19'12.47"N Longitude: 103°27'6.26"W

Depth	Time	PID (ppm)	USCS	Munsell Color	Description
Surface					
2	14:45	0.0	СН	Medium brown/slight red	Organic silt & clays/top soil with angular cobbles of caliche
5	14:50	0.0	SM	Pinkish brown	Sand with fines/silts & clays/fine ground caliche
10	14:55	0.0	SM	Light orange	Medium sized sand/25% - 40% fines/silts & clays
15	15:00	0.0	SM	Light orange to tan	Medium sized sand/25% - 40% fines/silts & clays

Appendix B

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



Analytical Report

Prepared for:

Coty Woolf Charger Services P.O. Box 53070 Midland, TX 79710

Project: New Kumet
Project Number: [none]
Location:

Lab Order Number: 6J17005



NELAP/TCEQ # T104704156-16-6

Report Date: 11/02/16

Charger Services P.O. Box 53070

Midland TX, 79710

Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (2)	6J17005-01	Soil	10/11/16 13:00	10-14-2016 16:25
SB-1 (5)	6J17005-02	Soil	10/11/16 13:05	10-14-2016 16:25
SB-1 (10)	6J17005-03	Soil	10/11/16 13:10	10-14-2016 16:25
SB-1 (15)	6J17005-04	Soil	10/11/16 13:15	10-14-2016 16:25
SB-1 (20)	6J17005-05	Soil	10/11/16 13:20	10-14-2016 16:25
SB-1 (25)	6J17005-06	Soil	10/11/16 13:25	10-14-2016 16:25
SB-1 (30)	6J17005-07	Soil	10/11/16 13:30	10-14-2016 16:25
SB-2 (2)	6J17005-22	Soil	10/11/16 14:45	10-14-2016 16:25
SB-2 (5)	6J17005-23	Soil	10/11/16 14:50	10-14-2016 16:25
SB-2 (10)	6J17005-24	Soil	10/11/16 14:55	10-14-2016 16:25
SB-2 (15)	6Ј17005-25	Soil	10/11/16 15:00	10-14-2016 16:25

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (2) 6J17005-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00112	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Toluene	ND	0.00225	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.4 %	75-1.	25	P6J1907	10/19/16	10/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.1 %	75-1.	25	P6J1907	10/19/16	10/19/16	EPA 8021B	
C6-C12	1454.8	140.45	mg/kg dry	5	P6J1808	10/15/16	10/18/16	TX 1005	
>C12-C28	2645.5	140.45	mg/kg dry	5	P6J1808	10/15/16	10/18/16	TX 1005	
>C28-C35	421.97	140.45	mg/kg dry	5	P6J1808	10/15/16	10/18/16	TX 1005	
Surrogate: 1-Chlorooctane		93.7 %	70-1.	30	P6J1808	10/15/16	10/18/16	TX 1005	
Surrogate: o-Terphenyl		95.7 %	70-1.	30	P6J1808	10/15/16	10/18/16	TX 1005	
Total Hydrocarbon nC6-nC35	4522.3	140.45	mg/kg dry	5	[CALC]	10/15/16	10/18/16	[CALC]	
General Chemistry Parameters by EI	PA / Standard Method	ls							
Chloride	68.1	1.12	mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6J1804	10/18/16	10/18/16	% calculation	

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (5) 6J17005-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin F	Environmer	ıtal Lab, l	L. P.				
Organics by GC				, -					
C6-C12	ND	26.596	mg/kg dry	1	P6J1808	10/15/16	10/18/16	TX 1005	
>C12-C28	31.032	26.596	mg/kg dry	1	P6J1808	10/15/16	10/18/16	TX 1005	
>C28-C35	ND	26.596	mg/kg dry	1	P6J1808	10/15/16	10/18/16	TX 1005	
Surrogate: 1-Chlorooctane		100 %	70-1	30	P6J1808	10/15/16	10/18/16	TX 1005	
Surrogate: o-Terphenyl		110 %	70-1	30	P6J1808	10/15/16	10/18/16	TX 1005	
Total Hydrocarbon nC6-nC35	31.032	26.596	mg/kg dry	1	[CALC]	10/15/16	10/18/16	[CALC]	
General Chemistry Parameters by El	PA / Standard Methods								
Chloride	273	1.06	mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P6J1804	10/18/16	10/18/16	% calculation	

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (10) 6J17005-03 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	2530	11.2 mg/kg dry	10	P6J1702	10/17/16	10/18/16	EPA 300.0
% Moisture	11.0	0.1 %	1	P6J1804	10/18/16	10/18/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (15) 6J17005-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	253	1.27 mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0
% Moisture	21.0	0.1 %	1	P6J1804	10/18/16	10/18/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (20) 6J17005-05 (Soil)

									l l
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	333	1.11 mg/kg dry	1	P6K0105	11/01/16	11/02/16	EPA 300.0
% Moisture	10.0	0.1 %	1	P6K0104	11/01/16	11/01/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (25) 6J17005-06 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	249	1.10 mg/kg dry	1	P6K0105	11/01/16	11/02/16	EPA 300.0
% Moisture	9.0	0.1 %	1	P6K0104	11/01/16	11/01/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-1 (30) 6J17005-07 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	150	1.05 mg/kg dry	1	P6K0110	11/01/16	11/02/16	EPA 300.0
% Moisture	5.0	0.1 %	1	P6K0104	11/01/16	11/01/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-2 (2) 6J17005-22 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmen	tal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P6J1907	10/19/16	10/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.3 %	75-1.	25	P6J1907	10/19/16	10/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		78.0 %	75-1.	25	P6J1907	10/19/16	10/19/16	EPA 8021B	
C6-C12	101.04	27.174	mg/kg dry	1	P6J1808	10/15/16	10/18/16	TX 1005	
>C12-C28	1241.4	27.174	mg/kg dry	1	P6J1808	10/15/16	10/18/16	TX 1005	
>C28-C35	78.511	27.174	mg/kg dry	1	P6J1808	10/15/16	10/18/16	TX 1005	
Surrogate: 1-Chlorooctane		103 %	70-1.	30	P6J1808	10/15/16	10/18/16	TX 1005	
Surrogate: o-Terphenyl		109 %	70-1.	30	P6J1808	10/15/16	10/18/16	TX 1005	
Total Hydrocarbon nC6-nC35	1420.9	27.174	mg/kg dry	1	[CALC]	10/15/16	10/18/16	[CALC]	
General Chemistry Parameters by EP	A / Standard Method	s							
Chloride	29.6	1.09	mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6J1804	10/18/16	10/18/16	% calculation	

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-2 (5) 6J17005-23 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	276	1.12 mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0
% Moisture	11.0	0.1 %	1	P6J1804	10/18/16	10/18/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-2 (10) 6J17005-24 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	55.2	1.09 mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0
% Moisture	8.0	0.1 %	1	P6J1804	10/18/16	10/18/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

SB-2 (15) 6J17005-25 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	87.8	1.14 mg/kg dry	1	P6J1702	10/17/16	10/18/16	EPA 300.0
% Moisture	12.0	0.1 %	1	P6J1804	10/18/16	10/18/16	% calculation

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

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 P6J1808 - General Preparation	n (GC)									
Blank (P6J1808-BLK1)				Prepared: 1	0/15/16 A	nalyzed: 10	/18/16			
C6-C12	ND	25.000	mg/kg wet							
>C12-C28	ND	25.000	"							
>C28-C35	ND	25.000	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			
LCS (P6J1808-BS1)				Prepared: 1	0/15/16 A	nalyzed: 10	/18/16			
C6-C12	998	25.000	mg/kg wet	1000		99.8	75-125			
>C12-C28	928	25.000	"	1000		92.8	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	51.1		"	50.0		102	70-130			
LCS Dup (P6J1808-BSD1)				Prepared: 1	0/15/16 A	nalyzed: 10	/18/16			
C6-C12	957	25.000	mg/kg wet	1000		95.7	75-125	4.14	20	
>C12-C28	867	25.000	"	1000		86.7	75-125	6.84	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.3	70-130			
Batch P6J1907 - General Preparation	n (GC)									
Blank (P6J1907-BLK1)				Prepared &	: Analyzed:	10/19/16				
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	0.0638		"	0.0800		79.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.0766		"	0.0800		95.7	75-125			

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

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 P6J1907 - General Preparation (GC)										
LCS (P6J1907-BS1)				Prepared &	Analyzed:	10/19/16				
Benzene	0.0903	0.00100	mg/kg wet	0.100		90.3	70-130			
Toluene	0.0887	0.00200	"	0.100		88.7	70-130			
Ethylbenzene	0.119	0.00100	"	0.100		119	70-130			
Xylene (p/m)	0.223	0.00200	"	0.200		112	70-130			
Xylene (o)	0.107	0.00100	"	0.100		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.0726		"	0.0800		90.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.0693		"	0.0800		86.6	75-125			
LCS Dup (P6J1907-BSD1)				Prepared &	Analyzed:	10/19/16				
Benzene	0.0936	0.00100	mg/kg wet	0.100		93.6	70-130	3.64	20	
Toluene	0.0944	0.00200	"	0.100		94.4	70-130	6.21	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	13.1	20	
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130	5.16	20	
Xylene (o)	0.116	0.00100	"	0.100		116	70-130	8.18	20	
Surrogate: 4-Bromofluorobenzene	0.0777		"	0.0800		97.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.0688		"	0.0800		86.0	75-125			
Matrix Spike (P6J1907-MS1)	Sou	rce: 6J17004	-01	Prepared &	Analyzed:	10/19/16				
Benzene	0.0715	0.00111	mg/kg dry	0.111	ND	64.4	80-120			QM-07
Toluene	0.0720	0.00222	"	0.111	ND	64.8	80-120			QM-07
Ethylbenzene	0.105	0.00111	"	0.111	ND	94.4	80-120			
Xylene (p/m)	0.187	0.00222	"	0.222	ND	84.1	80-120			
Xylene (o)	0.0923	0.00111	"	0.111	ND	83.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0879		"	0.0889		98.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0707		"	0.0889		79.5	75-125			

P.O. Box 53070 Midland TX, 79710 Project Number: [none]
Project Manager: Coty Woolf

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 P6J1702 - *** DEFAULT PREP ***										
Blank (P6J1702-BLK1)				Prepared:	10/17/16 A	nalyzed: 10	0/18/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6J1702-BS1)				Prepared:	10/17/16 A	nalyzed: 10	0/18/16			
Chloride	400	1.00	mg/kg wet	400		99.9	80-120			
LCS Dup (P6J1702-BSD1)				Prepared:	10/17/16 A	nalyzed: 10)/18/16			
Chloride	398	1.00	mg/kg wet	400		99.6	80-120	0.313	20	
Duplicate (P6J1702-DUP1)	Sou	rce: 6J17002	-01	Prepared:	10/17/16 A	nalyzed: 10	0/18/16			
Chloride	935	11.1	mg/kg dry		940			0.569	20	
Duplicate (P6J1702-DUP2)	Sou	rce: 6J17004	-25	Prepared:	10/17/16 A	nalyzed: 10	0/18/16			
Chloride	141	1.15	mg/kg dry		141			0.0163	20	
Matrix Spike (P6J1702-MS1)	Sou	rce: 6J17002	-01	Prepared:	10/17/16 A	nalyzed: 10	0/18/16			
Chloride	1540	11.1	mg/kg dry	556	940	108	80-120			
Batch P6J1804 - *** DEFAULT PREP ***										
Blank (P6J1804-BLK1)				Prepared &	t Analyzed:	10/18/16				
% Moisture	ND	0.1	%	•						
Duplicate (P6J1804-DUP1)	Sou	rce: 6J17004	-25	Prepared &	k Analyzed:	10/18/16				
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P6J1804-DUP2)	Sou	rce: 6J17009	-05	Prepared &	ե Analyzed:	10/18/16				
% Moisture	ND	0.1	%		ND				20	

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analysis	Result	Reporting Limit	Units	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch P6J1804 - *** DEFAULT PREP ***										
Duplicate (P6J1804-DUP3)	Sour	rce: 6J17013-	04	Prepared &	Analyzed:	10/18/16				
% Moisture	ND	0.1	%		8.0			200	20	
Batch P6K0104 - *** DEFAULT PREP ***										
Blank (P6K0104-BLK1)				Prepared &	Analyzed:	11/01/16				
% Moisture	ND	0.1	%							
Duplicate (P6K0104-DUP1)	Sour	rce: 6J31008-	02	Prepared &	Analyzed:	11/01/16				
% Moisture	2.0	0.1	%		3.0			40.0	20	
Duplicate (P6K0104-DUP2)	Sour	rce: 6J20003-	13	Prepared &	Analyzed:	11/01/16				
% Moisture	2.0	0.1	%		1.0			66.7	20	
Batch P6K0105 - *** DEFAULT PREP ***										
Blank (P6K0105-BLK1)				Prepared:	11/01/16 A	nalyzed: 11	/02/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6K0105-BS1)				Prepared:	11/01/16 A	nalyzed: 11	/02/16			
Chloride	404	1.00	mg/kg wet	400		101	80-120			
Duplicate (P6K0105-DUP1)	Sour	ce: 6K01001-	-01	Prepared:	11/01/16 A	nalyzed: 11	/02/16			
Chloride	5.61	1.01	mg/kg dry		5.39			3.86	20	
Duplicate (P6K0105-DUP2)	Sour	ce: 6J17004-	14	Prepared:	11/01/16 A	nalyzed: 11	/02/16			
Chloride	17100	54.9	mg/kg dry		17100			0.0483	20	

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

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 P6K0105 - *** DEFAULT PREP ***										
Matrix Spike (P6K0105-MS1)	Sou	rce: 6K01001	-01	Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	843	1.01	mg/kg dry	1010	5.39	82.9	80-120			
Batch P6K0110 - *** DEFAULT PREP ***										
Blank (P6K0110-BLK1)				Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6K0110-BS1)				Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	417	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P6K0110-BSD1)				Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	426	1.00	mg/kg wet	400		107	80-120	2.09	20	
Duplicate (P6K0110-DUP1)	Sou	rce: 6J17005-	-07	Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	150	1.05	mg/kg dry		150			0.0979	20	
Duplicate (P6K0110-DUP2)	Sou	rce: 6J17005-	-17	Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	32.9	1.04	mg/kg dry		32.8			0.349	20	
Matrix Spike (P6K0110-MS1)	Sou	rce: 6J17005-	-07	Prepared: 1	11/01/16 Aı	nalyzed: 11	/02/16			
Chloride	1090	1.05	mg/kg dry	1050	150	89.2	80-120			

P.O. Box 53070 Project Number: [none]
Midland TX, 79710 Project Manager: Coty Woolf

Notes and Definitions

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

recovery.

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

	Drew	Darlor			
Report Approved By:			Date:	11/2/2016	

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.

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