

**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: Curry State #5

Project Number: [none]

Location: New Mexico

Lab Order Number: 6F17004



NELAP/TCEQ # T104704156-13-3

Report Date: 06/30/16

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

Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1 0-1	6F17004-01	Soil	06/08/16 15:10	06-17-2016 08:15
SS-1 1-2	6F17004-02	Soil	06/08/16 15:20	06-17-2016 08:15
SS-1 2-3	6F17004-03	Soil	06/08/16 15:30	06-17-2016 08:15
SS-1 5-6	6F17004-04	Soil	06/08/16 15:40	06-17-2016 08:15
SS-1 10-11	6F17004-05	Soil	06/08/16 15:50	06-17-2016 08:15
SS-2 0-1	6F17004-06	Soil	06/08/16 16:00	06-17-2016 08:15
SS-2 1-2	6F17004-07	Soil	06/08/16 16:10	06-17-2016 08:15
SS-2 2-3	6F17004-08	Soil	06/08/16 16:20	06-17-2016 08:15
SS-2 5-6	6F17004-09	Soil	06/08/16 16:30	06-17-2016 08:15
SS-2 10-11	6F17004-10	Soil	06/08/16 16:40	06-17-2016 08:15
SS-3 0-1	6F17004-11	Soil	06/08/16 16:50	06-17-2016 08:15
SS-3 1-2	6F17004-12	Soil	06/08/16 17:00	06-17-2016 08:15
SS-3 2-3	6F17004-13	Soil	06/08/16 17:10	06-17-2016 08:15
SS-3 5-6	6F17004-14	Soil	06/08/16 17:20	06-17-2016 08:15
SS-4 0-1	6F17004-15	Soil	06/08/16 17:30	06-17-2016 08:15
SS-4 1-2	6F17004-16	Soil	06/08/16 17:40	06-17-2016 08:15
SS-4 2-3	6F17004-17	Soil	06/08/16 17:50	06-17-2016 08:15
SS-4 5-6	6F17004-18	Soil	06/08/16 18:00	06-17-2016 08:15
SS-5 0-1	6F17004-19	Soil	06/08/16 18:10	06-17-2016 08:15
SS-5 1-2	6F17004-20	Soil	06/08/16 18:20	06-17-2016 08:15
SS-5 2-3	6F17004-21	Soil	06/08/16 18:30	06-17-2016 08:15
SS-5 5-6	6F17004-22	Soil	06/08/16 18:40	06-17-2016 08:15

Charger Services
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SS-1 0-1
6F17004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0230	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B
Toluene	ND	0.0460	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B
Ethylbenzene	ND	0.0230	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B
Xylene (p/m)	0.829	0.0460	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B
Xylene (o)	1.14	0.0230	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B
<i>Surrogate: 4-Bromofluorobenzene</i>		96.0 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B
<i>Surrogate: 1,4-Difluorobenzene</i>		108 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	9540	57.5	mg/kg dry	50	P6F2915	06/22/16	06/22/16	EPA 300.0
% Moisture	13.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	515	144	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M
>C12-C28	6900	144	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M
>C28-C35	1410	144	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		91.4 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		95.9 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	8820	144	mg/kg dry	5	[CALC]	06/17/16	06/19/16	calc

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Project: Curry State #5
Project Number: [none]
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SS-1 1-2
6F17004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B	
Toluene	0.477	0.0444	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	2.38	0.0444	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	1.68	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		58.6 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		89.2 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4900	27.8	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	489	139	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	6140	139	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	996	139	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		88.6 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		93.7 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	7630	139	mg/kg dry	5	[CALC]	06/17/16	06/19/16	calc	

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SS-1 2-3
6F17004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P6F2702	06/21/16	06/21/16	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P6F2702	06/21/16	06/21/16	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P6F2702	06/21/16	06/21/16	EPA 8021B	
Xylene (p/m)	0.0112	0.00220	mg/kg dry	1	P6F2702	06/21/16	06/21/16	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P6F2702	06/21/16	06/21/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P6F2702	06/21/16	06/21/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P6F2702	06/21/16	06/21/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10100	54.9	mg/kg dry	50	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	89.8	27.5	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	1110	27.5	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	194	27.5	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1390	27.5	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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SS-1 5-6
6F17004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Toluene	0.130	0.0444	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Xylene (p/m)	1.46	0.0444	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Xylene (o)	0.131	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	75-125		P6F2702	06/21/16	06/21/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P6F2702	06/21/16	06/21/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8770	55.6	mg/kg dry	50	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	315	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	4060	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	670	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		91.0 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		97.8 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5040	27.8	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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SS-1 10-11
6F17004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Toluene	ND	0.0444	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Xylene (p/m)	ND	0.0444	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
Xylene (o)	0.197	0.0222	mg/kg dry	20	P6F2702	06/21/16	06/21/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	75-125		P6F2702	06/21/16	06/21/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		113 %	75-125		P6F2702	06/21/16	06/21/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4550	27.8	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	178	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	2980	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	513	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.6 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		105 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3670	27.8	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
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SS-2 0-1
6F17004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.564	0.110	mg/kg dry	100	P6F2702	06/21/16	06/22/16	EPA 8021B	
Toluene	2.79	0.220	mg/kg dry	100	P6F2702	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.110	mg/kg dry	100	P6F2702	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	5.53	0.220	mg/kg dry	100	P6F2702	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.942	0.110	mg/kg dry	100	P6F2702	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		59.7 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		81.7 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5300	27.5	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2420	275	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	21500	275	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	3820	275	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		131 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		120 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27800	275	mg/kg dry	10	[CALC]	06/17/16	06/19/16	calc	

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SS-2 1-2
6F17004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0562	mg/kg dry	50	P6F2702	06/21/16	06/22/16	EPA 8021B	
Toluene	0.147	0.112	mg/kg dry	50	P6F2702	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0562	mg/kg dry	50	P6F2702	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	2.64	0.112	mg/kg dry	50	P6F2702	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	1.59	0.0562	mg/kg dry	50	P6F2702	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		77.6 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.7 %	75-125		P6F2702	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3590	28.1	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	693	140	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	7220	140	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	1210	140	mg/kg dry	5	P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		90.6 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		95.9 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9120	140	mg/kg dry	5	[CALC]	06/17/16	06/19/16	calc	

Charger Services
P.O. Box 53070
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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

SS-2 2-3
6F17004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0562	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.112	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0562	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	0.459	0.112	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.296	0.0562	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3440	28.1	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1530	281	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	17900	281	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	2930	281	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		91.2 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	22300	281	mg/kg dry	10	[CALC]	06/17/16	06/19/16	calc	

Charger Services
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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

SS-2 5-6
6F17004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4460	27.8	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		128 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		145 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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SS-2 10-11
6F17004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0549	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	0.231	0.110	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0549	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	1.76	0.110	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.242	0.0549	mg/kg dry	50	P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		89.1 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		65.2 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	7100	27.5	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	400	27.5	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	5030	27.5	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	875	27.5	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		91.6 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.3 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6300	27.5	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-3 0-1
6F17004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0444	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	0.0891	0.0444	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.0451	0.0222	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12200	55.6	mg/kg dry	50	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	268	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	4920	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	823	27.8	mg/kg dry	1	P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		87.8 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6010	27.8	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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SS-3 1-2
6F17004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.0517	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	0.674	0.0460	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	3.75	0.0460	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	2.69	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		87.1 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		61.6 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	6760	28.7	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1830	287	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C12-C28	22300	287	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
>C28-C35	3310	287	mg/kg dry	10	P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		110 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		133 %	70-130		P6F2304	06/17/16	06/19/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	27400	287	mg/kg dry	10	[CALC]	06/17/16	06/19/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-3 2-3
6F17004-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0225	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0449	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0225	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.0449	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.148	0.0225	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		107 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.6 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5970	28.1	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	161	28.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	1980	28.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	253	28.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		131 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	2400	28.1	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-3 5-6
6F17004-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0225	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0449	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0225	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.0449	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.0771	0.0225	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4700	28.1	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	142	28.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	2010	28.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	257	28.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		129 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		139 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	2410	28.1	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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SS-4 0-1
6F17004-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0215	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0430	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0215	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	0.942	0.0430	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.289	0.0215	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.2 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4060	26.9	mg/kg dry	25	P6F2915	06/22/16	06/22/16	EPA 300.0	
% Moisture	7.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	935	134	mg/kg dry	5	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	11500	134	mg/kg dry	5	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	1120	134	mg/kg dry	5	P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	13600	134	mg/kg dry	5	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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SS-4 1-2
6F17004-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0217	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0435	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0217	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	0.760	0.0435	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.277	0.0217	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		57.0 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	1390	10.9	mg/kg dry	10	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	655	27.2	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	7930	27.2	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	886	27.2	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		95.5 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9470	27.2	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-4 2-3
6F17004-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0217	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0435	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0217	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.0435	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	ND	0.0217	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		115 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1310	10.9	mg/kg dry	10	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	76.8	27.2	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	2540	27.2	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	543	27.2	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.7 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		92.9 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3160	27.2	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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SS-4 5-6
6F17004-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0220	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0440	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0220	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	0.384	0.0440	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.0892	0.0220	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.8 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	3730	27.5	mg/kg dry	25	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	212	27.5	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	3680	27.5	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	475	27.5	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		95.2 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		94.0 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4360	27.5	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

Charger Services
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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

SS-5 0-1
6F17004-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.0386	0.0233	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	0.972	0.0465	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0233	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	5.20	0.0465	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	3.11	0.0233	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		74.9 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		75.6 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3800	29.1	mg/kg dry	25	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	14.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2200	29.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	11700	29.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	1220	29.1	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Surrogate: o-Terphenyl		93.6 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	15100	29.1	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

SS-5 1-2
6F17004-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0460	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.0460	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	1.93	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		97.7 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8070	57.5	mg/kg dry	50	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	127	28.7	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	2120	28.7	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	261	28.7	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		88.2 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		91.6 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2500	28.7	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

SS-5 2-3
6F17004-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0460	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.0460	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.0453	0.0230	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		110 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		123 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7490	28.7	mg/kg dry	25	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	146	28.7	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	2190	28.7	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	290	28.7	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		87.2 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		89.9 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2630	28.7	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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SS-5 5-6
6F17004-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0227	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Toluene	ND	0.0455	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Ethylbenzene	ND	0.0227	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (p/m)	ND	0.0455	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
Xylene (o)	0.107	0.0227	mg/kg dry	20	P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		106 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		71.5 %	75-125		P6F2902	06/21/16	06/22/16	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	5970	28.4	mg/kg dry	25	P6F2916	06/22/16	06/22/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	175	28.4	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C12-C28	3780	28.4	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
>C28-C35	436	28.4	mg/kg dry	1	P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		130 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		135 %	70-130		P6F2006	06/17/16	06/19/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	4390	28.4	mg/kg dry	1	[CALC]	06/17/16	06/19/16	calc	

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

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
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Batch P6F2702 - General Preparation (GC)

Blank (P6F2702-BLK1)

Prepared & Analyzed: 06/21/16

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: 4-Bromofluorobenzene	0.0668		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0636		"	0.0600		106	75-125			

LCS (P6F2702-BS1)

Prepared & Analyzed: 06/21/16

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.223	0.00200	"	0.200		112	70-130			
Xylene (o)	0.120	0.00100	"	0.100		120	70-130			
Surrogate: 1,4-Difluorobenzene	0.0641		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0685		"	0.0600		114	75-125			

Duplicate (P6F2702-DUP1)

Source: 6F17004-07

Prepared: 06/21/16 Analyzed: 06/22/16

Benzene	ND	0.0562	mg/kg dry		ND			20		
Toluene	0.160	0.112	"		0.147			8.44	20	
Ethylbenzene	ND	0.0562	"		ND				20	
Xylene (p/m)	1.92	0.112	"		2.64			31.8	20	R3
Xylene (o)	1.86	0.0562	"		1.59			16.1	20	
Surrogate: 1,4-Difluorobenzene	0.0639		"	0.0674		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0467		"	0.0674		69.3	75-125			S-GC

Batch P6F2902 - General Preparation (GC)

Blank (P6F2902-BLK1)

Prepared: 06/21/16 Analyzed: 06/22/16

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	0.0621		"	0.0600		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.0798		"	0.0600		133	75-125			S-GC

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

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
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Batch P6F2902 - General Preparation (GC)

LCS (P6F2902-BS1)

Prepared: 06/21/16 Analyzed: 06/22/16

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.117	0.00100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	0.0603		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0793		"	0.0600		132	75-125			S-GC

Duplicate (P6F2902-DUP1)

Source: 6F17004-08

Prepared: 06/21/16 Analyzed: 06/22/16

Benzene	ND	0.0562	mg/kg dry		ND				20	
Toluene	ND	0.112	"		ND				20	
Ethylbenzene	ND	0.0562	"		ND				20	
Xylene (p/m)	0.591	0.112	"		0.459			25.1	20	R3
Xylene (o)	0.367	0.0562	"		0.296			21.5	20	R3
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0674		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.0760		"	0.0674		113	75-125			

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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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General Chemistry Parameters by EPA / Standard 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
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Batch P6F2002 - * DEFAULT PREP *****

Blank (P6F2002-BLK1)

Prepared & Analyzed: 06/20/16

% Moisture	ND	0.1	%							
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Duplicate (P6F2002-DUP1)

Source: 6F17001-26

Prepared & Analyzed: 06/20/16

% Moisture	5.0	0.1	%		5.0			0.00	20	
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Duplicate (P6F2002-DUP2)

Source: 6F17003-07

Prepared & Analyzed: 06/20/16

% Moisture	10.0	0.1	%		11.0			9.52	20	
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Duplicate (P6F2002-DUP3)

Source: 6F17004-08

Prepared & Analyzed: 06/20/16

% Moisture	9.0	0.1	%		11.0			20.0	20	
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Duplicate (P6F2002-DUP4)

Source: 6F17005-13

Prepared & Analyzed: 06/20/16

% Moisture	16.0	0.1	%		17.0			6.06	20	
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Duplicate (P6F2002-DUP5)

Source: 6F17005-36

Prepared & Analyzed: 06/20/16

% Moisture	11.0	0.1	%		10.0			9.52	20	
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Batch P6F2915 - * DEFAULT PREP *****

LCS (P6F2915-BS1)

Prepared & Analyzed: 06/22/16

Chloride	162	1.00	mg/kg wet	200		81.1	80-120			
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LCS Dup (P6F2915-BSD1)

Prepared & Analyzed: 06/22/16

Chloride	164	1.00	mg/kg wet	200		81.9	80-120	1.06	20	
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Duplicate (P6F2915-DUP1)

Source: 6F17003-26

Prepared & Analyzed: 06/22/16

Chloride	22.0	1.12	mg/kg dry		22.2			0.762	20	
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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

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General Chemistry Parameters by EPA / Standard 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
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Batch P6F2915 - * DEFAULT PREP *****

Duplicate (P6F2915-DUP2)		Source: 6F17004-06			Prepared & Analyzed: 06/22/16					
Chloride	5410	27.5	mg/kg dry		5300			2.05	20	
Matrix Spike (P6F2915-MS1)		Source: 6F17003-22			Prepared & Analyzed: 06/22/16					
Chloride	421	1.05	mg/kg dry	421	7.84	98.2	80-120			

Batch P6F2916 - * DEFAULT PREP *****

Blank (P6F2916-BLK1)		Prepared & Analyzed: 06/22/16								
Chloride	ND	1.00	mg/kg wet							
LCS (P6F2916-BS1)		Prepared & Analyzed: 06/22/16								
Chloride	173	1.00	mg/kg wet	200		86.7	80-120			
LCS Dup (P6F2916-BSD1)		Prepared & Analyzed: 06/22/16								
Chloride	175	1.00	mg/kg wet	200		87.6	80-120	1.01	20	
Duplicate (P6F2916-DUP1)		Source: 6F17004-16			Prepared & Analyzed: 06/22/16					
Chloride	1370	10.9	mg/kg dry		1390			1.37	20	
Duplicate (P6F2916-DUP2)		Source: 6F17005-04			Prepared & Analyzed: 06/22/16					
Chloride	1460	29.1	mg/kg dry		1690			14.9	20	
Matrix Spike (P6F2916-MS1)		Source: 6F17004-16			Prepared & Analyzed: 06/22/16					
Chloride	3810	10.9	mg/kg dry	2170	1390	111	80-120			

Charger Services
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Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

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
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Batch P6F2006 - TX 1005

Blank (P6F2006-BLK1)

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	52.9		"	50.0		106	70-130			

LCS (P6F2006-BS1)

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	928	25.0	mg/kg wet	1000		92.8	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	96.1		"	100		96.1	70-130			
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130			

LCS Dup (P6F2006-BSD1)

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	974	25.0	mg/kg wet	1000		97.4	75-125	4.81	20	
>C12-C28	1060	25.0	"	1000		106	75-125	0.554	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.7	70-130			

Duplicate (P6F2006-DUP1)

Source: 6F17005-10

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	3220	142	mg/kg dry		3150			2.24	20	
>C12-C28	22700	142	"		21500			5.59	20	
Surrogate: 1-Chlorooctane	168		"	170		98.8	70-130			
Surrogate: o-Terphenyl	84.8		"	85.2		99.5	70-130			

Batch P6F2304 - TX 1005

Blank (P6F2304-BLK1)

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

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

Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

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
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Batch P6F2304 - TX 1005

LCS (P6F2304-BS1)

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	1010	25.0	mg/kg wet	1000		101	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	137		"	100		137	70-130			S-GC
Surrogate: o-Terphenyl	58.0		"	50.0		116	70-130			

LCS Dup (P6F2304-BSD1)

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	0.547	20	
>C12-C28	1160	25.0	"	1000		116	75-125	2.29	20	
Surrogate: 1-Chlorooctane	134		"	100		134	70-130			S-GC
Surrogate: o-Terphenyl	60.1		"	50.0		120	70-130			

Duplicate (P6F2304-DUP1)

Source: 6F17004-12

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	1940	287	mg/kg dry		1830			6.12	20	
>C12-C28	22800	287	"		22300			2.30	20	
Surrogate: 1-Chlorooctane	151		"	115		131	70-130			S-GC
Surrogate: o-Terphenyl	72.2		"	57.5		126	70-130			

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

Project: Curry State #5
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

Notes and Definitions

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

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

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:



Date:

6/30/2016

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.

Phone: 432-686-7235

**Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701**

Project Manager:

Catswood

Project Name:

Curry State

Company Name

Company Address:

City/State/Zip:

Telephone No.:

Fax No:

Report Format: X Standard

FR

NPDES

Sampler Signature

e-mail:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO#

Project Location

Project #2

Page 32 of 34

[illegible]

Project Manager:

Company Name

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

Project Name:

Project #:

Project Loc:

PO #:

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

(lab use only)

ORDER #:

6F17004

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃ 250 ml Poly

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH by TX 1005 8015B 8015M

Chloride

BTEX by 8021B

Preservation & # of Containers

Matrix

Analyze For:

Rush 24 48 72 (Please call)

Standard

Special Instructions:

Relinquished by:

Date

Time

Relinquished by:

Date

Time

Relinquished by:

Date

Time

Date

Time

Date

Time

Date

Time

Laboratory Comments:

Sample Containers Initialed?

N

N

N

N

N

N

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N

VOCs Free of Headspace?

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N

Custody seals on containers?

N

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N

Custody seals on cooler(s)?

N

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N

N

N

N

N

N

N

N

N

N

N

N

Sample Hand Delivered?

N

N

N

N

N

N

N

N

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N

N

N

N

by Courier?

N

N

N

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N

N

by Sampler/Client Rep?

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Temperature Upon Receipt?

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Adjusted VOCs?

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager:

Cathy Wells

Project Name:

Carr State #

Company Name

Charger Services

Project #:

Company Address:

Project Loc:

City/State/Zip:

PO #:

Telephone No:

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail:

(lab use only)

ORDER #:

6F17004

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃ 250/ml Poly

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH by TX 1005 8015 8015M

Chloride

BTEX by 80218

Preservation & # of Containers

Matrix

Analyze For:

Rush 24 48 72 (Please call)

Standard

Special Instructions:

Relinquished by:

Date

Time

6/17/16

800

Relinquished by:

Date

Time

Relinquished by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered by Sampler/Client Rep?

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