

Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 6/12/2019

Job Number: 04108-0369

Work Order: P906043

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:



Date: 6/18/19

Walter Hinchman, Laboratory Director



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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP21	P906043-01A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP22	P906043-02A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP23	P906043-03A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP24	P906043-04A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP25	P906043-05A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP26	P906043-06A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP27	P906043-07A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP28	P906043-08A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP29	P906043-09A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP30	P906043-10A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP31	P906043-11A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP32	P906043-12A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP33	P906043-13A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP34	P906043-14A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP35	P906043-15A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP36	P906043-16A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP37	P906043-17A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP38	P906043-18A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP39	P906043-19A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.
SP40	P906043-20A	Soil	06/10/19	06/12/19	Glass Jar, 4 oz.

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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP21
P906043-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		94.9 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.7 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		97.7 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		94.9 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.7 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	398	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP22
P906043-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.5 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.5 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	127	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP23
P906043-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		99.0 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	320	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP24
P906043-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		106 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		106 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	326	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP25
P906043-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.6 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		96.6 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	306	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP26
P906043-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %		70-130	1924022	06/12/19	06/13/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.9 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %		70-130	1924022	06/12/19	06/13/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	20.6	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP27
P906043-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.4 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		97.4 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.4 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	330	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP28
P906043-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/13/19	EPA 8015D	
Surrogate: n-Nonane		98.0 %		50-200	1924023	06/12/19	06/13/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	293	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP29
P906043-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.8 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		106 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.7 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		100 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.8 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		106 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.7 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	426	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP30
P906043-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		101 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	208	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP31
P906043-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		98.9 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1370	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP32
P906043-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		97.4 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	246	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP33
P906043-13 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.5 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		98.1 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.5 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	347	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP34
P906043-14 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.5 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.5 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1100	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP35
P906043-15 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.7 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	1030	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP36
P906043-16 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.1 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.1 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	381	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP37
P906043-17 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		98.5 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.5 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		98.5 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	454	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP38
P906043-18 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.4 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.0 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		100 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.4 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.0 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	824	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP39
P906043-19 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.1 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.6 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	204	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

SP40
P906043-20 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.0 %		70-130	1924022	06/12/19	06/14/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924023	06/12/19	06/14/19	EPA 8015D	
Surrogate: n-Nonane		99.0 %		50-200	1924023	06/12/19	06/14/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.0 %		70-130	1924022	06/12/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	449	20.0	mg/kg	1	1924029	06/12/19	06/13/19	EPA 300.0/9056A	
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WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Ross Draw Unit #57
Project Number: 04108-0369
Project Manager: Kris Rowe

Reported:
06/18/19 10:29

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924022 - Purge and Trap EPA 5030A

Blank (1924022-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.517		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.501		"	0.500		100	70-130			

LCS (1924022-BS1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Benzene	2.59	0.0250	mg/kg	2.50		103	70-130			
Toluene	2.60	0.0250	"	2.50		104	70-130			
Ethylbenzene	2.60	0.0250	"	2.50		104	70-130			
p,m-Xylene	4.94	0.0500	"	5.00		98.8	70-130			
o-Xylene	2.42	0.0250	"	2.50		97.0	70-130			
Total Xylenes	7.37	0.0250	"	7.50		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		"	0.500		94.4	70-130			
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

Matrix Spike (1924022-MS1)

Source: P906043-01

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Benzene	2.56	0.0250	mg/kg	2.50	ND	102	48-131			
Toluene	2.61	0.0250	"	2.50	ND	104	48-130			
Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135			
p,m-Xylene	4.91	0.0500	"	5.00	ND	98.2	43-135			
o-Xylene	2.41	0.0250	"	2.50	ND	96.6	43-135			
Total Xylenes	7.32	0.0250	"	7.50	ND	97.7	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.526		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

Matrix Spike Dup (1924022-MSD1)

Source: P906043-01

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Benzene	2.57	0.0250	mg/kg	2.50	ND	103	48-131	0.293	23	
Toluene	2.57	0.0250	"	2.50	ND	103	48-130	1.24	24	
Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135	0.195	27	
p,m-Xylene	4.90	0.0500	"	5.00	ND	97.9	43-135	0.265	27	
o-Xylene	2.40	0.0250	"	2.50	ND	95.9	43-135	0.665	27	
Total Xylenes	7.30	0.0250	"	7.50	ND	97.3	43-135	0.397	27	
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.528		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.2	70-130			

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

24 Hour Emergency Response Phone (800) 362-1879

envirotech-inc.com

Labadmin@envirotech-inc.com

Page 23 of 29

WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924023 - DRO Extraction EPA 3570
Blank (1924023-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	52.4		"	50.0		105	50-200			

LCS (1924023-BS1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Diesel Range Organics (C10-C28)	528	25.0	mg/kg	500		106	38-132			
Surrogate: n-Nonane	53.8		"	50.0		108	50-200			

Matrix Spike (1924023-MS1)

Source: P906043-01

Prepared: 06/12/19 1 Analyzed: 06/13/19 2

Diesel Range Organics (C10-C28)	465	25.0	mg/kg	500	ND	93.0	38-132			
Surrogate: n-Nonane	49.8		"	50.0		99.6	50-200			

Matrix Spike Dup (1924023-MSD1)

Source: P906043-01

Prepared: 06/12/19 1 Analyzed: 06/13/19 2

Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500	ND	88.9	38-132	4.54	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

Nonhalogenated Organics by 8015 - GRO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924022 - Purge and Trap EPA 5030A
Blank (1924022-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.517		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.501		"	0.500		100	70-130			

LCS (1924022-BS2)

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Gasoline Range Organics (C6-C10)	59.3	20.0	mg/kg	50.0		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		"	0.500		98.5	70-130			
Surrogate: Toluene-d8	0.528		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.486		"	0.500		97.2	70-130			

Matrix Spike (1924022-MS2)

Source: P906043-01

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Gasoline Range Organics (C6-C10)	59.1	20.0	mg/kg	50.0	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.523		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		98.9	70-130			

Matrix Spike Dup (1924022-MSD2)

Source: P906043-01

Prepared: 06/12/19 1 Analyzed: 06/13/19 1

Gasoline Range Organics (C6-C10)	53.9	20.0	mg/kg	50.0	ND	108	70-130	9.20	20	
Surrogate: 1,2-Dichloroethane-d4	0.487		"	0.500		97.3	70-130			
Surrogate: Toluene-d8	0.528		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.513		"	0.500		103	70-130			

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WPX (Carlsbad)
 5315 Buena Vista Dr
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57
 Project Number: 04108-0369
 Project Manager: Kris Rowe

Reported:
 06/18/19 10:29

Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1924029 - Anion Extraction EPA 300.0/9056A
Blank (1924029-BLK1)

Prepared: 06/12/19 1 Analyzed: 06/12/19 2

Chloride ND 20.0 mg/kg

LCS (1924029-BS1)

Prepared: 06/12/19 1 Analyzed: 06/13/19 0

Chloride 257 20.0 mg/kg 250 103 90-110

Matrix Spike (1924029-MS1)
Source: P906043-02

Prepared: 06/12/19 1 Analyzed: 06/13/19 0

Chloride 406 20.0 mg/kg 250 127 112 80-120

Matrix Spike Dup (1924029-MSD1)
Source: P906043-02

Prepared: 06/12/19 1 Analyzed: 06/13/19 0

Chloride 392 20.0 mg/kg 250 127 106 80-120 3.57 20

QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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WPX (Carlsbad)
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Ross Draw Unit #57
Project Number: 04108-0369
Project Manager: Kris Rowe

Reported:
06/18/19 10:29

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Client: <u>WPX Carlisbad</u> Project: <u>Rock Draw Unit #157</u> Project Manager: <u>Kris Rowe</u> Address: <u>un file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P906043</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____						TAT 1D _____ 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM ☒ CO ☐ UT ☐ AZ ☐ Remarks: _____			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0								
	6/10/19	soil	1	SP21	1	X	X	X			X								
	↓	↓	↓	SP22	2														
	↓	↓	↓	SP23	3														
	↓	↓	↓	SP24	4														
	↓	↓	↓	SP25	5														
	↓	↓	↓	SP26	6														
	↓	↓	↓	SP27	7														
	↓	↓	↓	SP28	8														
	↓	↓	↓	SP29	9														
	↓	↓	↓	SP30	10														

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Kevin

U's ice in cooler

Relinquished by: (Signature) <u>Kevin</u>				Date <u>6/11/2019</u>		Time <u>10:45</u>		Received by: (Signature) <u>Carney Swall</u>				Date <u>6/11/19</u>		Time <u>10:45</u>		Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	
Relinquished by: (Signature) <u>FedEx</u>				Date <u>6/12/19</u>		Time <u>10:00</u>		Received by: (Signature) <u>Jessica A. Hoff</u>				Date <u>6-12-19</u>		Time <u>10:00</u>			

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Client: <u>WPX Carlsbad</u> Project: <u>ROSS DRAW UNIT #57</u> Project Manager: <u>KRIS ROWE</u> Address: <u>on file</u> City, State, Zip: <u>↓</u> Phone: <u>↓</u> Email: <u>↓</u>				Report Attention Report due by: _____ Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>P906043</u> Job Number <u>04108-0369</u> Analysis and Method: _____ DRO/ORO by 8015: _____ GRO/DRO by 8015: _____ BTEX by 8021: _____ VOC by 8260: _____ Metals 6010: _____ Chloride 300.0: _____				TAT 1D _____ 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____ State: _____ NM ☒ CO ☐ UT ☐ AZ ☐ Remarks: _____			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						
	6/10/19	soil	1	SP 31	11	X	X	X			X						
	↓	↓	↓	SP 32	12	↓	↓	↓			↓						
	↓	↓	↓	SP 33	13	↓	↓	↓			↓						
	↓	↓	↓	SP 34	14	↓	↓	↓			↓						
	↓	↓	↓	SP 35	15	↓	↓	↓			↓						
	↓	↓	↓	SP 36	16	↓	↓	↓			↓						
	↓	↓	↓	SP 37	17	↓	↓	↓			↓						
	↓	↓	↓	SP 38	18	↓	↓	↓			↓						
	↓	↓	↓	SP 39	19	↓	↓	↓			↓						
	↓	↓	↓	SP 40	20	↓	↓	↓			↓						

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Kevin

Relinquished by: (Signature) Kevin Date 6/11/2019 Time 10:45 Received by: (Signature) Courtney Strahl Date 6/11/19 Time 10:45

Relinquished by: (Signature) FedEx Date 6/12/19 Time 10:00 Received by: (Signature) Jessica M. Meltzer Date 6/12/19 Time 10:00

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.