

# **Analytical Report**

#### **Report Summary**

Client: WPX (Carlsbad)

Samples Received: 7/13/2019 Job Number: 04108-0639 Work Order: P907037

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Waltet Hinkman	Date:	7/17/19	
	Walter Hinchman, Laboratory Director			



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported

5796 Highway 64, Farmington, NM 87401

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 **Reported:**Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

# **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP61	P907037-01A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP64	P907037-02A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP66	P907037-03A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP69	P907037-04A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP70	P907037-05A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP76	P907037-06A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP78	P907037-07A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP79	P907037-08A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP81	P907037-09A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP87	P907037-10A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP91	P907037-11A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP93	P907037-12A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP95	P907037-13A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP102	P907037-14A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW1	P907037-15A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW2	P907037-16A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW3	P907037-17A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW4	P907037-18A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW5	P907037-19A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW7	P907037-20A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW9	P907037-21A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW11	P907037-22A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SW12	P907037-23A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP101	P907037-24A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0639 Project Manager: Kris Rowe

Reported:

07/17/19 14:45

**SP61** 

		P90703	37-01 (So	lid)					
		Reporting				•	•	•	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	34.8	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220

Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:45

**SP64** 

P907037-02 (Solid)

Reporting

Analyte Result Limit Dilution Batch Prepared Analyzed Method Units Notes

Anions by 300.0/9056A

Chloride 156 20.0 mg/kg 1929005 07/15/19 07/16/19 **EPA** 300.0/9056A



Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

07/17/19 14:45

# **SP66**

	P90/03/-03 (Solid)										
		Reporting					•				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Anions by 300.0/9056A											
Chloride	79.3	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A			

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:45

**SP69** 

	P90/037-04 (Solid)											
		Reporting	•				•	•				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	118	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A				

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Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

07/17/19 14:45

## **SP70**

## P907037-05 (Solid)

	F907037-05 (S0Hd)											
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	99.5	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA				
								300.0/9056A				

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

# **SP76**

## P907037-06 (Solid)

	1907037-00 (Solid)											
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	192	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A				

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

**SP78** 

	P90/037-07 (Solid)										
		Reporting	•								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Anions by 300.0/9056A											
Chloride	ND	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A			



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:45

**SP79** 

P907037-08 (Solid)

	F907037-08 (S0IId)											
		Reporting	•									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	99.1	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300 0/9056A				



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

**SP81** 

	P907037-09 (Solid)											
		Reporting					•					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	26.6	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A				



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

#### **SP87** P907037-10 (Solid)

	F90/037-10 (Solid)											
		Reporting		•	•							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	69.7	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A				

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

#### **SP91**

## P907037-11 (Solid)

	P90/03/-11 (Solid)											
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Anions by 300.0/9056A												
Chloride	78.7	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA				
Chioriac	76.7	20.0		-	-, -, 000	22/12/	220129	300.0/9056A				

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Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

07/17/19 14:45

#### SP93 P907037-12 (Solid)

		Reporting		Í					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		104 %	50-	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	149	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	



Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

07/17/19 14:45

#### SP95 P907037-13 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50-	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50-	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	133	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

SP102

		P9070.	37-14 (Sc	olid)					
		Reporting	•				•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	146	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:45

SW1

		P90703	<b>37-15 (S</b> 0	olid)					
		Reporting	•				•		·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	23.4	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:45

SW2

P907037-16 (Solid)

		P90/03	57-10 (SC	ona)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	208	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA	
emoriae	200	20.0	mg/Kg		1,2,000	07/15/19	07/10/19	300.0/9056A	
								300.0/3030A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe **Reported:** 07/17/19 14:45

SW3

P907037-17 (Solid)

		Reporting	<b>2</b> 7 17 (50						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		106 %	50-	200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	364	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	



Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0639 Project Manager: Kris Rowe

Reported: 07/17/19 14:45

SW4

		P90703	37-18 (Sc	olid)					
	•	Reporting	•		•			•	·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	213	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported:

07/17/19 14:45

SW5

		P9070	<i>37-</i> 19 (Sc	olid)					
		Reporting	•					•	·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	126	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe

Reported: 07/17/19 14:45

SW7

		P9070	37-20 (Sc	olid)					
		Reporting	·						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	118	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 **Reported:**Kris Rowe 07/17/19 14:45

## SW9

#### P907037-21 (Solid)

		1 70 70	37-21 (5011	u)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/6	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		106 %	50-20	00	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-1.	50	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	275	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: Reported:

07/17/19 14:45

#### SW11 P907037-22 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50-	200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-	150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	219	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	



Project Name:

Ross Draw Unit #57

04108-0639

Kris Rowe

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager:

Reported: 07/17/19 14:45

**SW12** 

		P90703	37-23 (Sc	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	95.2	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	

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Project Name:

Ross Draw Unit #57

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:45

## SP101 P907037-24 (Solid)

			<b>0</b>	,,,,					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1929003	07/15/19	07/16/19	EPA 8015D	
Surrogate: n-Nonane		103 %	50	-200	1929003	07/15/19	07/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929002	07/15/19	07/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50	-150	1929002	07/15/19	07/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	81.2	20.0	mg/kg	1	1929006	07/15/19	07/16/19	EPA 300.0/9056A	

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

## Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1929003 - DRO Extraction EPA 3570										
Blank (1929003-BLK1)				Prepared: (	07/15/19 1 A	Analyzed: 0	07/16/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			
LCS (1929003-BS1)				Prepared: (	07/15/19 1 A	Analyzed: 0	7/16/19 1			
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	500		99.7	38-132			
Surrogate: n-Nonane	50.0		"	50.0		100	50-200			
Matrix Spike (1929003-MS1)	Sour	ce: P907037-	12	Prepared: (	07/15/19 1 A	Analyzed: 0	7/16/19 1			
Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500	ND	97.4	38-132			
Surrogate: n-Nonane	52.3		"	50.0		105	50-200			
Matrix Spike Dup (1929003-MSD1)	Sour	ce: P907037-	12	Prepared: (	07/15/19 1 A	Analyzed: 0	07/16/19 1			
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.8	38-132	2.75	20	
Surrogate: n-Nonane	50.4		"	50.0		101	50-200			

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

Pacult

8.18

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:45

## Nonhalogenated Organics by 8015 - GRO - Quality Control

#### **Envirotech Analytical Laboratory**

Unite

Spike

Laval

8.00

Source

Pocult

%PEC

102

50-150

%REC

Limite

DDD

RPD

Limit

Reporting

Limit

Analyte	Resuit	Limit	Units	Level	Resuit	%KEC	Limits	KPD	Limit	Notes
Batch 1929002 - Purge and Trap EPA 5030A										
Blank (1929002-BLK1)				Prepared: (	07/15/19 0	Analyzed: (	07/16/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		"	8.00		103	50-150			
LCS (1929002-BS2)				Prepared: (	07/15/19 0	Analyzed: (	07/16/19 1			
Gasoline Range Organics (C6-C10)	57.1	20.0	mg/kg	50.0		114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			
Matrix Spike (1929002-MS2)	Source	e: P907037-	12	Prepared: (	07/15/19 0	Analyzed: (	07/16/19 1			
Gasoline Range Organics (C6-C10)	55.9	20.0	mg/kg	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		"	8.00		103	50-150			
Matrix Spike Dup (1929002-MSD2)	Source	e: P907037-	12	Prepared: (	07/15/19 0	Analyzed: (	07/16/19 1			
Gasoline Range Organics (C6-C10)	54.7	20.0	mg/kg	50.0	ND	109	70-130	2.27	20	

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Surrogate: 1-Chloro-4-fluorobenzene-FID



Project Name:

Reporting

Ross Draw Unit #57

Spike

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0639 Project Manager: Kris Rowe Reported:

07/17/19 14:45

RPD

%REC

#### Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1929005 - Anion Extraction EPA	300.0/9056A									
Blank (1929005-BLK1)				Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 0			
Chloride	ND	20.0	mg/kg							
LCS (1929005-BS1)				Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 0			
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (1929005-MS1)	Source	e: P907037-	01	Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 0			
Chloride	289	20.0	mg/kg	250	34.8	102	80-120			
Matrix Spike Dup (1929005-MSD1)	Source	e: P907037-	01	Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 0			
Chloride	282	20.0	mg/kg	250	34.8	98.8	80-120	2.64	20	

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Project Name:

Reporting

Ross Draw Unit #57

Spike

5315 Buena Vista Dr Carlsbad NM, 88220 Project Number: 04108-0639 Project Manager: Kris Rowe **Reported:** 07/17/19 14:45

RPD

%REC

#### Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 1929006 - Anion Extraction EPA	300.0/9056A													
Blank (1929006-BLK1)														
Chloride	ND	20.0	mg/kg											
LCS (1929006-BS1)				Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 1							
Chloride	257	20.0	mg/kg	250		103	90-110							
Matrix Spike (1929006-MS1)	Source	e: P907037-	21	Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 1							
Chloride	561	20.0	mg/kg	250	275	115	80-120							
Matrix Spike Dup (1929006-MSD1)	Source	e: P907037-	21	Prepared: (	07/15/19 1	Analyzed: 0	7/16/19 1							
Chloride	551	20.0	mg/kg	250	275	111	80-120	1.73	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 my differ slightly.

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WPX (Carlsbad) Project Name: Ross Draw Unit #57

5315 Buena Vista Dr Project Number: 04108-0639 Reported: 07/17/19 14:45 Carlsbad NM, 88220 Project Manager: Kris Rowe

#### **Notes and Definitions**

Analyte DETECTED DET

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: WPX (arlshad	Report Attention			1	ab U	se Onl	У	MA	TAT	T	PA Progra	m
Project: ROSS Draw Unit #57	Report due by: on tile	La	ab W	O#		Job N	lumbe	er	1D_3D		CWA	SDWA
Project Manager: Kris Rowe	Attention:	. LF	290	703	7			-0639				
Address: on file	Address:			× F	1	Analy:	sis and	Method		en verene	Sta	
City, State, Zip	City, State, Zip	<u> — Г</u>	315	CTr							NM CO	UT AZ
Phone:	Phone:	3	8 8	21	0		0.0					
Email:	Email:		8 8	80 80	826	601	e 30				X	
Time Date Sampled Matrix No Containers Sample ID		Lab umber	DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				Ren	arks
SF	61						X				115	
	64	1					(					
3.	P66 (3	3										184000-000
		1										
S	P69 P70	5										
5	7-16	2										
Si	78	7									The state of the s	
SP	78	5										
SF		7								:		
SP	87	0										- 1
Additional Instructions:		•										
I, (field sampler), attest to the validity and authenticity of this sample. I am awar time of collection is considered fraud and may be grounds for legal action. Samp	ed by: Kenn	date or								received on ice t an 6 <sup>e</sup> C on subseq	ne day they are sam uent days.	pled or received
Relinquished by: (Sanature)  Date 7/12/2014 7	40 pm (Signature) Date Received by: (Signature) Date Date	الماأ	Fin	2:5	0	Rece	ived o	on ice:	14/1	Jse Only		
Relinquished by: (Signature)  David Foreign Time  Time  Time  Time  Time	64M Received by: (Signatur)	ŧ	Tin	ne		T1 AVG	Temp	°C_	T2		<u>T3</u>	
Sample Matrix: S - Soil, Sd - Solid, Se - Sludge, A - Aqueous, O - Other_	Cor	ntainer Ty	ype: g	- glass								
Note: Samples are discarded 30 days after results are reported unless only to those samples received by the laboratory with this COC. The li	ther arrangements are made. Hazardous samples will be retur	rned to clier									above samples	is applicable
only to those samples received by the laboratory with this COC. The li	somey of the laboratory is infinited to the amount paid for off the	- reports										4.0



Client:	WIPX	Carist	rond		11B	Report Att	tention			Bun	La	ab Us	e On	ly			TAT	Г	1	PA Pro	ram
Project:	12055	Draw	1 Unit	#57	46	Report due by:	file		Lab '	WO#		· e	Job 1	Numb	er	1	.D 3		RCRA	CWA	SDWA
Project N		Kai	5 Row	<u>e</u>		Attention:			P9	WO#	37		94	108	-063			X			
Address:		0~ fi	K			Address:	D		V-17-00				Analy	sis an	d Meth	od	- 5		5: 11: 82-46		State
City, Stat	e, Zip					City, State, Zip			115	115						П				NM C	O UT AZ
Phone:						Phone:	J		)4 SC	, 8C	21	0		0.0						1/	
Email:						Email:			30 b	30 6	/ 802	826	601(	e 30						X	
Time	Date	Matrix	No	Sample ID				Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						D	emarks
Sampled	Sampled	IVIALITX	Containers	Sample 1D				Number	DRO	GR(	BTE	Š Š	Σ	Chl						I.	CIIIai Na
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					SP	93		11	X	X				X			ĺ				
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t, (field sample	er), attest to the	validity and a	uthenticity of t	his sample. I am av	ware that ta	mpering with or intentionally mislabellin	ing the sample loca	tion, date or													sampled or received
time of collec	tion is considere	ed fraud and m	nay be grounds	for legal action. Sa	mpled by:	impering with or intentionally mislabellin	L						packed ii	n ice at a	avg temp	above 0	) but less	than 6	C on subseq	ient days.	
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						rrangements are made. Hazardous			lient o	r dispo	sed of	at the	client e	expense	. The re	port f	or the	analy:	sis of the	bove samp	les is applicable
only to thos	e sampies reci	ervea by the	iacoratory W	itii this COC. Th	е паршту	of the laboratory is limited to the ar	mount paid for d	in the report.											1,580		





Client:	WIS		15ha	d	1	Report Atten	ition				La	b Use	e Onl	У			TA	T		EPA Progr	am
Project:	RE	iss Da	aw Un	17 457		Report due by:	1 te		Lab	WO#			Job N	lumb	er	1	1D 3	3D	RCRA	CWA	SDWA
Project N	/lanager:	Cr	is Rou	je		Attention:				070			041	08	-06	39		X			
Address:		٠,	22 file			Address:						-	Analy:	sis an	d Metl	nod		,		St	ate
City, Stat	e, Zip		ì			City, State, Zip			15	15										NM CC	UT AZ
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Email:			Y			Email:			DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						IXI	
Time	Date	8.4-A-i	No	Canada ID		<u> </u>		Lab	3/0F	)/DF	X by	þ	tals (	oride						Pos	narks
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Addition	al Instruc	tions:	•															110	1	and annual of the	
I. (field sample	er), attest to the	e validity and a	uthenticity of t	his sample. I am av	vare that ta	empering with or intentionally mislabelling th	he sample location	n, date or	-				Samples	requiring	thermal po	reserva	tion nus	it be reco	ived on ice	he day they are sa	npled or received
				for legal action. Sa		Kevin						F	oacked in	ice at ar	n avg temp	above	0 but les	s than 6	C on subse	quent days.	
Relinquishe	ed by: (Signa	ature)	Date 7/	12/2019 Tin	ne 2:43	Received by: (Signature) Received by: (Signature) Received by: (Signature)	Na ligo	ate 11, 2	1,9	Time.	50		Paca	ivad	on ice		D /	b Use	Only		
Relinguishe	ed by: (Sign:	ature)	Date	Tin	ne /	Received by: (Signature)	Di	ate	H	Time	<u></u>		nece T1	iveu	onice		/ <del>ال</del> 12	IV		T3	
DΔI	Mi Is	KUXIK	7	13/19	0.15								AVG	Tem	p °C_	4				10	
Sample Mati	rix: <b>S</b> - Soil, <b>S</b> o	Solid, Sg -	Sludge, A - Ad	queous, <b>O</b> - Othe		_	C	ontainer	Туре	: <b>g -</b> g	lass,					nber	glass	, v - V	OA		
						rrangements are made. Hazardous san			lient o	r dis po	sed of	at the c	lient e	xpense	e. The re	eport	for the	analy	sis of the	above sample	is applicable
only to those	e samples red	eived by the	laboratory w	ith this COC. Th	e liability	of the laboratory is limited to the amou	unt paid for on t	he report.													



Pih (505) 632-1881 Fx (505) 632-1865

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Client: WPX (arlshad	Report Attention				La	b Us	se On	ly		T	AT	E	PA Progra	ım
Project: Ross Draw Unit #57	Report due by: an file		Lab	WO#			Job N	Numb	er	1D	3D	RCRA	CWA	SDWA
Project Manager: Kris Rowe	Attention:		Po	1070	37	7	04	108	-063	1	X			
Address: on file	Address:			1011			Analy	sis an	d Metho	od			St	ate
City, State, Zip	City, State, Zip		115	15									NM CO	UT AZ
Phone:	Phone:		v 80	v 80	11	0		0.0					.1	
Email:	Email:		0°	30 b	807	826	601(	30					X	
Time Date No Comple ID		Lab	DRO/ORO by 8015	SRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Ron	narks
Sampled Sampled Matrix Containers Sample ID		Number	DRC	GRC	BTE	NOC	Met	SH.			1		Neil	Idiks
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SP8		9												
SP8-		10						1					MATE	
Additional Instructions:			6 4						(A)	1				
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 locat	ion, date or					1000						e day they are sar	apled or received
time of collection is considered fraud and may be grounds for legal action. Sampled by	Keron											6 f on subsequ	ent days	
Relinquished by: (Senature)  Velus Jawa 7/12/2014 7:41	pan (M. Signature)	Date /	1.8	Time .	50	)	Poss	ivad	on ico:	V.	ab Us	e Only		
Relinquished by: (Signature) Date Time	Received by: (Signature)	Date Date	17	Time			T1	iveu	office.	T2	/ 14		<u>T3</u>	
Daina Ponens 7/12/19 10:16	AM	3.50					AVG	Tem	p °C	4		LIPAL!	19	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Туре	:g-g	lass,	<b>p</b> - p	oly/pla	astic,	ag - amb	oer gla	ss, v -	VOA		
Note: Samples are discarded 30 days after results are reported unless other	arrangements are made. Hazardous samples will be	returned to c											bove sample:	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 o	n the report.												



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Client:	WPX	Caris	and			Report Attention			J. I	La	ab Us	e On	ly	- Consider		TAT		E	PA Progra	m
Project:	Ros	s Draw Kri	v Unit	#57	25	Report Attention Report due by: 50 file		Lab	WO#	1		Job N	Numb	oer .	10	3D	R	CRA	CWA	SDWA
Project N	lanager:	Kai	s Row	e		Attention:		P9	wo#	37		041	108	-063	il 🗎	X		3 183		
Address:		0~ fi	u		160	Address:						Analy	sis an	d Meth	od				Sta	
City, Stat	e, Zip				100	City, State, Zip		115	115								TE.		NM CO	UT AZ
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Email:		,				Email:		30 b	4,0%	80.	826	5010	300						X	
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						Ren	narks
	7/12 &	Mary			SP	91	III						X							FA
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	1			San	S	W7	120		3				X			100				
Addition	al Instruc	tions:																		
100				for legal action. Sa	mpled by:	ampering with or intentionally mislabelling the sample l						The second second		thermal pro n avg temp					day they are san ent days.	pled or received
Relinquishe	lur	Mur	10 Date 7//	2/2019	ne 2:40	Pareleived by: (Signature)	W7/19	19	Time U.	50	)	Rece	ived	on ice:	1	Lab L		nly		
Relinquishe	ed by: (Sign	ature)	Date		ne 5:15		Date		Time			T1 AVG	Temi	p °C	4				<u>T3</u>	
Sample Matr	rix: S - Soil, S	d - Solid, Se	Słudge, A - Ad	ueous, O - Othe		Del Const	Container	Туре	: g - g	lass,	<b>p</b> - pc				ber g	ass, v	- VOA			
Note: Sample	es are discar	ded 30 days a	fter results a	re reported unle	ss other a	rrangements are made. Hazardous samples will of the laboratory is limited to the amount paid for	be returned to o												oove samples	is applicable





Client:	W		13ba		100	Report Attention	on	Figure		La	b Us	e Onl	у		T	AT		EP.	A Progra	m
Project:	(	LOSS DI	raw Un	17 457		Report due by:	,	Lab	WO#			Job N	umbe	er	1D	3D	RCR	A	CWA	SDWA
Project N	1anage	: (	is Rou			Attention:		PG	070	13		041	08-	063		X				
Address:			onfik			Address:								Metho		-			Sta	te
City, Stat	e, Zip					City, State, Zip		115	8015										NM CO	UT AZ
Phone:						Phone:		by 8015	y 80	1	0		300.0						V	
Email:			4			Email:		30 b	(O by	by 8021	8260	6010	300						٨	
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time of collect	tion is cons	dered fraud and	may be grounds	for legal action, Sai	npled by:	ampering with or intentionally mislabelling the s								hermal prese avg temp ab					ay they are samp t days.	led or received
Relinquishe	ed by: (Si	gnature) -	~ Date.	12/2×19 7im	:40	Pu County (Signature)  Received by: (Signature)	vall 7/12	119	Time 2	50		Recei	ved o	n ice:	J.	ab Us	e Only			
Relinquishe DAI	ed by: (Si	nature)	Date 1	13/19 1	0.15	Received by: (Signature)	Date	U	Time			T1 AVG			T2 4				T3	-
Sample Mati	rix: S - Soil	Sd Solid, Se	Sludge, A - A	queous, O - Other			Containe	r Type	: g - g	lass.					er gla	SS, V -	VOA		-	
						rrangements are made. Hazardous sample												e abo	ve samples	s applicable
						of the laboratory is limited to the amount														



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