

## 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:



Date: 7/17/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

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

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP61**  
**P907037-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	34.8	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP64**  
**P907037-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	156	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP66**  
**P907037-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	79.3	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP69**
**P907037-04 (Solid)**

## Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Chloride	<b>118</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP70**  
**P907037-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	99.5	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP76**  
**P907037-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	192	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP78**  
**P907037-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	ND	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP79**
**P907037-08 (Solid)**

## Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Chloride	<b>99.1</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: 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	<b>26.6</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	EPA 300.0/9056A
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WPX (Carlsbad)	Project Name:	Ross Draw Unit #57	<b>Reported:</b> 07/17/19 14:45
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Kris Rowe	

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

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Chloride	<b>69.7</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP91**  
**P907037-11 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Chloride	78.7	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP93**  
**P907037-12 (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: <i>n</i> -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	
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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**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/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: <i>n</i> -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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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP102**  
**P907037-14 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Chloride	<b>146</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SW1**  
**P907037-15 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Chloride	<b>23.4</b>	20.0	mg/kg	1	1929005	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	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Kris Rowe	07/17/19 14:45

**SW2**  
**P907037-16 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Chloride	<b>208</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SW3**  
**P907037-17 (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: <i>n</i> -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	
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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SW4**  
**P907037-18 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Chloride	<b>213</b>	20.0	mg/kg	1	1929005	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	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Kris Rowe	07/17/19 14:45

**SW5**  
**P907037-19 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Anions by 300.0/9056A**

Chloride	<b>126</b>	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SW7**  
**P907037-20 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	118	20.0	mg/kg	1	1929005	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SW9**  
**P907037-21 (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: <i>n</i> -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	275	20.0	mg/kg	1	1929006	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**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: <i>n</i> -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	
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WPX (Carlsbad)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SW12**  
**P907037-23 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Anions by 300.0/9056A**

Chloride	<b>95.2</b>	20.0	mg/kg	1	1929006	07/15/19	07/16/19	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: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**SP101**  
**P907037-24 (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: <i>n</i> -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)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**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 1929003 - DRO Extraction EPA 3570**
**Blank (1929003-BLK1)**

Prepared: 07/15/19 1 Analyzed: 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 Analyzed: 07/16/19 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)**

Source: P907037-12

Prepared: 07/15/19 1 Analyzed: 07/16/19 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)**

Source: P907037-12

Prepared: 07/15/19 1 Analyzed: 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)  
 5315 Buena Vista Dr  
 Carlsbad NM, 88220

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**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 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: 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: 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	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			

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

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**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 1929005 - Anion Extraction EPA 300.0/9056A**
**Blank (1929005-BLK1)**

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

Chloride ND 20.0 mg/kg

**LCS (1929005-BS1)**

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

Chloride 253 20.0 mg/kg 250 101 90-110

**Matrix Spike (1929005-MS1)**
**Source: P907037-01**

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

Chloride 289 20.0 mg/kg 250 34.8 102 80-120

**Matrix Spike Dup (1929005-MSD1)**
**Source: P907037-01**

Prepared: 07/15/19 1 Analyzed: 07/16/19 0

Chloride 282 20.0 mg/kg 250 34.8 98.8 80-120 2.64 20

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

 Project Name: Ross Draw Unit #57  
 Project Number: 04108-0639  
 Project Manager: Kris Rowe

**Reported:**  
 07/17/19 14:45

**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 1929006 - Anion Extraction EPA 300.0/9056A**
**Blank (1929006-BLK1)**

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

Chloride ND 20.0 mg/kg

**LCS (1929006-BS1)**

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

Chloride 257 20.0 mg/kg 250 103 90-110

**Matrix Spike (1929006-MS1)**
**Source: P907037-21**

Prepared: 07/15/19 1 Analyzed: 07/16/19 1

Chloride 561 20.0 mg/kg 250 275 115 80-120

**Matrix Spike Dup (1929006-MSD1)**
**Source: P907037-21**

Prepared: 07/15/19 1 Analyzed: 07/16/19 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 may differ slightly.

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

Project Name: Ross Draw Unit #57  
Project Number: 04108-0639  
Project Manager: Kris Rowe

**Reported:**  
07/17/19 14:45

### 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 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>				<b>Report Attention</b> Report due by: <u>on file</u> Attention: <u>                    </u> Address: <u>                    </u> City, State, Zip: <u>                    </u> Phone: <u>                    </u> Email: <u>                    </u>				<b>Lab Use Only</b> Lab WO# <u>P907037</u> Job Number <u>04108-0639</u> Analysis and Method: <u>                    </u>						<b>TAT</b> 1D <input checked="" type="checkbox"/> 3D <input checked="" type="checkbox"/>		<b>EPA Program</b> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State: <u>                    </u> NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> Remarks: <u>                    </u>			
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								
				SP 91	11						X								
				SP 93	12	X	X				X								
				SP 95	13	X	X				X								
				SP 102	14						X								
				SW1	15						X								
				SW2	16						X								
				SW3	17	X	X				X								
				SW4	18						X								
				SW5	19						X								
				SW7	20						X								

**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: Kerin

Relinquished by: (Signature) Karin Davis Date 7/12/2019 Time 2:40pm Received by: (Signature) Courtney Stoval Date 7/12/19 Time 2:50

Relinquished by: (Signature) Karin Lopez Date 7/13/19 Time 10:15am Received by: (Signature)                      Date                      Time                     

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.



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Client: <u>WJPK Carlisbad</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>				<b>Report Attention</b> Report due by: <u>on file</u> Attention: <u>                    </u> Address: <u>                    </u> City, State, Zip: <u>                    </u> Phone: <u>                    </u> Email: <u>                    </u>				<b>Lab Use Only</b> Lab WO# <u>P907037</u> Job Number <u>04108-0639</u> Analysis and Method: <u>                    </u>				<b>TAT</b> 1D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		<b>EPA Program</b> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> State: <u>                    </u> NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/>			
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	Remarks					
	<u>7/12/2019</u>	<u>2m Per cent</u>		<u>SP 91</u>	<u>11</u>						<u>X</u>						
				<u>SP 93</u>	<u>12</u>	<u>X</u>	<u>X</u>				<u>X</u>						
				<u>SP 95</u>	<u>13</u>	<u>X</u>	<u>X</u>				<u>X</u>						
				<u>SP 102</u>	<u>14</u>						<u>X</u>						
				<u>SW 1</u>	<u>15</u>						<u>X</u>						
				<u>SW 2</u>	<u>16</u>						<u>X</u>						
				<u>SW 3</u>	<u>17</u>	<u>X</u>	<u>X</u>				<u>X</u>						
				<u>SW 4</u>	<u>18</u>						<u>X</u>						
				<u>SW 5</u>	<u>19</u>						<u>X</u>						
				<u>SW 7</u>	<u>20</u>						<u>X</u>						
<b>Additional Instructions:</b>																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Kern</u>												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature) <u>Kern</u>		Date <u>7/12/2019</u>		Time <u>2:40pm</u>		Received by: (Signature) <u>Courtney Stoval</u>		Date <u>7/12/19</u>		Time <u>2:50</u>		Lab Use Only					
Relinquished by: (Signature) <u>Rain Lopez</u>		Date <u>7/13/19</u>		Time <u>10:15am</u>		Received by: (Signature) <u>                    </u>		Date <u>                    </u>		Time <u>                    </u>		Received on ice: <u>0</u> / N					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												T1 <u>                    </u> T2 <u>                    </u> T3 <u>                    </u>					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA												AVG Temp °C <u>4</u>					
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.																	



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