

Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 7/13/2019

Job Number: 04108-0639

Work Order: P907036

Project Name/Location: Ross Draw Unit #57

Report Reviewed By:	Walter Hindunan	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.

5796 Highway 64, Farmington, NM 87401

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Labadmin@envirotech-inc.com



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 14:32

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1	P907036-01A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP2	P907036-02A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP3	P907036-03A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP4	P907036-04A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP5	P907036-05A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP6	P907036-06A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP9	P907036-07A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP10	P907036-08A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP11	P907036-09A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP12	P907036-10A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP20	P907036-11A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP31	P907036-12A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP34	P907036-13A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP35	P907036-14A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP38	P907036-15A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP41	P907036-16A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP42	P907036-17A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP55	P907036-18A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP57	P907036-19A	Soil	07/12/19	07/13/19	Glass Jar, 4 oz.
SP60	P907036-20A	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: Project Manager: 04108-0639 Kris Rowe Reported:

07/17/19 14:32

SP1

P907036-01 (Solid)

		F 90 / 0.	30-01 (30	mu)					
		Reporting	•		•	•			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	563	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP2

		P90703	36-02 (Sc	olid)					
		Reporting			•		•	•	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	201	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP3

		P90703	36-03 (Sc	olid)					
		Reporting					•	•	·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	296	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP4

P907036-04 (Solid)

		P90/03	6-04 (Son	ıa)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	466	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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24 Hour Emergency Response Phone (800) 362-1879

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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 14:32

SP5

P907036-05 (Solid)

		F 90 / U.	30-03 (SC	mu)					
		Reporting			•				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	229	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP6

P907036-06 (Solid)

		P90/0	36-06 (50	ona)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
•	122	20.0	ma/Ira	1	1929001	07/15/10	07/15/10	EDA	
Chloride	123	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA	
								300.0/9056A	

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5796 Highway 64, Farmington, NM 87401



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 14:32

SP9

		P90703	86-07 (So	lid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	151	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP10

		P9070.	36-08 (Sc	olid)					
		Reporting				•	•	•	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	343	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP11

		P9070.	36-09 (Sc	olid)					
		Reporting				•	•		·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	260	20.0	mg/kg	1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	<u> </u>

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Project Name:

Ross Draw Unit #57

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

04108-0639 Reported: 07/17/19 14:32 Kris Rowe

SP12

		P90703	36-10 (Sc	olid)					
		Reporting			•			•	·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	151	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP20

P907036-11 (Solid)

		1 70 70 50-1	(Solid)					
		Reporting						
Analyte	Result	Limit Unit	s Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A								
Chloride	75.2	20.0 mg	/kg 1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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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 14:32

SP31

		P9070.	36-12 (Sc	olid)					
		Reporting				•	•	•	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	200	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP34

P907036-13 (Solid)

		P90/0	30-13 (50	ona)					
		Reporting				•			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	40.2	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP35

P907036-14 (Solid)

		P90/0	30-14 (50	ma)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	131	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP38

		P9070	36-15 (Sc	olid)					
		Reporting	•		•				·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	104	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP41

		P90703	86-16 (Sc	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	111	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP42

		P90703	36-17 (Sc	olid)					
		Reporting	•			•	•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	107	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP55

P907036-18 (Solid)

		P90/03	06-18 (50	na)					
		Reporting							
	D 1	* · · ·	** **	D.1:	D . 1	D 1		N 4 1	NT -
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	48.6	20.0	mg/kg	1	1929001	07/15/19	07/15/19	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 14:32

SP57

<u>P9</u>	07	030	<u>6-1</u>	<u>9 (</u>	So	lid

		P90/030-	19 (Sona)					
		Reporting						
Analyte	Result	Limit Ur	nits Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A								
Chloride	177	20.0 n	ng/kg 1	1929001	07/15/19	07/15/19	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 14:32

SP60

P907036-20 (Solid)

		P90/030	-20 (Sona)					
		Reporting						
Analyte	Result	Limit U	Jnits Dilu	tion Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A								
Chloride	40.6	20.0	mg/kg 1	1929001	07/15/19	07/15/19	EPA 300.0/9056A	

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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 14:32

RPD

%REC

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1929001 - Anion Extraction EPA 300.	0/9056A									
Blank (1929001-BLK1)				Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1			
Chloride	ND	20.0	mg/kg							
LCS (1929001-BS1)				Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1			
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1929001-MS1)	Source	e: P907036-	01	Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1			
Chloride	785	20.0	mg/kg	250	563	89.0	80-120			
Matrix Spike Dup (1929001-MSD1)	Source	e: P907036-	01	Prepared: (07/15/19 0 A	Analyzed: 0	7/15/19 1			
Chloride	742	20.0	mg/kg	250	563	71.9	80-120	5.59	20	SPK1

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:
Carlsbad NM, 88220 Project Manager: Kris Rowe 07/17/19 14:32

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

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: WPX Carlsbad						Report Attention					La	b Us	Jse Only				TAT	EPA Program				
Project:	R 059	s Draw	Unit	#57	Re	Report due by: On fik			Lab WO#			,	Job Number 04108-0639						RA	CWA	SDWA	
Project N	lanager:	Kri	5 Plant	2	At	tention:			P 9	070	03	6	0410	08-1	1634		X					
Project Manager: Kris Rave Address: on file						Address:								Analysis and Method				ı			ite	
City, State, Zip						ty, State, Zip			015)15										NM CO	UT AZ	
Phone:					Pt Pt	one:			у 8(34 8(21	0		0.0						./		
Email:			T	To.	En	nail:			80	80	× 80	/ 826	601	le 30								
Time Sampled	Matrix I Sample ID					Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Rem	arks			
11:30cm	7 In has	(2)	١	7.	SP.					Ŭ				X								
1. 2.00	1114009	DUI	,	N-00-000	<u></u>											+	-			1095-9700 30 0		
					SP2			2														
					SPZ			3														
					3 P4		ALL THE STREET	ŭ						\sqcap								
										\vdash			\rightarrow	++	+	+	-	$\overline{}$				
					SP5			5														
					SPE			6														
					SP9			7														
					SPio			8														
						5		9						$\dagger \dagger$	\top	\top				====		
					SPII SPIZ	1972		10					\dashv	+				\vdash			-	
	١.		1		1112			10	L				\perp									
Additiona	al Instruct	tions:																				
I, (field sample	(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally muslabelling the sample								ation, date or				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.									
			nay be grounds	for legal action. Sa	mpled by:		evin						раскей иг	ice at all	avg temp a				S	it days.		
Relinquished by: (Signature) Date Time Pereived by: (Signature) Relinquished by: (Signature) Date Time Received by: (Signature)							The street	7/12/	7/12/19 Z:50				Lab Use Only Received on ice: \(\overline{O} \estimate \ N \)									
Relinquished by: (Signature) Date Time Received by: (Signature)							ure	Date		Time		- 1	T1 T2 T3									
Row Lopes 7/13/19 10:15 mm							9		AVG Temp °C													
Sample Matrix: S - Soil, Sd - Soild, Sg Sludge, A - Aqueous, O - Other									Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
				•		gements are made. Haza	· ·	returned to c											the ab	ove samples	s applicable	
only to those	samples rec	eived by the	laboratory wi	th this COC. The	e liability of th	ne laboratory is limited to	the amount paid for o	n the report.	anganan.			weer nove	- segment									



Client: WPX Carlshad					Report Attention					La	ab Us	Jse Only				TA			EP	A Progra	m
Project: Ros and raw #57					Report due by: 5-56			P907036				Job Number 04108-0639				1D 3D		RCR	Α	CWA	SDWA
	Manager:	K	1 RO	we_	Attention:	1		Pq	070	136	2					1	X				
Address: Address: Address:												Analy	nd Me	thod						ite	
City, State, Zip								015	015											NM CO	UT AZ
Phone: Email: Phone: Email:								by 8	by 8	121	09	01	0.0							$\sqrt{ \cdot }$	
Email:	1			8	DR0)4 8(y 82	9 60	Je 3							$\Delta \bot$					
Time Sampled	Matrix I 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
11:45	7112/2019	Soil	(5							X										
	1	•	1	5	12																
				S		13															
				S		14															
				S	15																
				S		16															
				Si		17															
				ST	(4)	18															
				SP	19													8 S W			
			1	SF		20)									
Addition	al Instruc	tions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample loca time of collection is considered fraud and may be grounds for legal action. Sampled by:								packed in ice at an avg temp above 0 but less than 6 °C on subsequent							pled or received						
Relinquished by: (Signature) Relinquished by: (Signature) Date Time 2. 40 Pm Received by: (Signature) Received by: (Signature)							U 7/12/	19	$\mathcal{Z}^{\text{Time}}$	50	Lab Use Only Received on ice:										
Relinquished by: (Signature) Date Time Received by: (Signature) Time Received by: (Signature)							Date	-	Time			T1 AVG	Tem	n°C	- 4	T2			-	T3	
									Time T1 AVG Temp °C Avig Temp °C T3 Avig Temp °C T3 Avig Temp °C												
Note: Samp	les are discard	ded 30 days a	fter results a	re reported unless other	arrangements are made. It		be returned to o												ne ab	ove samples	is applicable
OFFITY TO LINOS	e samples rec	eived by the	ιαυσιαίσιγ W	iti tilis COC. The habilit	y or the laboratory is lifflite	a to the amount paid 10	on the report.	150000	Materia puesa.												

