

CLOSURE REQUEST REPORT

Ross Draw Unit #011

Eddy County, New Mexico

Incident Numbers:

nAB1712951426 nAB1728553778 nAB1728551205 nAPP2200728755

Prepared For:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

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SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing corrective actions and subsequent soil sampling events as proposed in an approved Remediation Work Plan (RWP), performed for four inadvertent releases of crude oil and/or produced water at the Ross Draw Unit #011 (Site). Based on the completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

SITE LOCATION AND RELEASE BACKGROUNDS

The Site is located in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.022210°, -103.867013°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755

As originally documented in the RWP, four inadvertent reportable spill incidents occurred between April 20, 2017, and January 4, 2022, and released approximately 94 barrels (bbls) of produced water and/or crude oil at the Site, of which approximately 40 bbls of fluids were successfully recovered. WPX reported the releases to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141s (Form C-141) between April 21, 2017, and January 10, 2022.

The RWP proposed corrective actions to address identified residual soil impacts exceeding the applicable Site Closure Criteria. The RWP was received by the NMOCD on April 4, 2022, and approved with the following conditions:

- "Horizontal delineation of the releases will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts. Base and sidewalls confirmation samples must be collected and analyzed for parameters listed in Table I of 19.15.29.12 NMAC."
- The OCD approves a confirmation sample size variance of up to but no more than 400 square feet per sample."

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved RWP, the Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to ground water and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

All potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**. Referenced well records are provided as **Appendix B**.

Based on the results from the desktop review detailed in the approved RWP, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

EXCAVATION SOIL SAMPLING ACTIVITIES

nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755

Between October 6, 2023, and October 30, 2023, excavation activities were performed via mechanical equipment to address residual impacts, which resulted in two separate excavations. Excavation activities were directed by referencing delineation laboratory analytical results documented in the RWP and field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Following the removal of impacted soil, Etech collected 5-point composite confirmation soil samples from the floors (FS01 through FS44) and sidewalls (SW01 through SW21) of the excavations at the approved sampling frequency of 400 square feet. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. in Farmington, New Mexico, for analysis of the COCs.

Approximately 4,380 cubic yards of impacted soil removed from the Site was transported to R360 Antelope Draw in Jal, New Mexico under WPX approved manifests. Upon receipt of final confirmation excavation soil samples results, the excavations were backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The locations of confirmation excavation soil samples are shown in **Figure 2A** and **Figure 2B** in **Appendix A**. Photographic documentation of excavation and restoration activities is included in **Appendix C**.

EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation excavation soil samples indicated all analyzed COCs were below the applicable Site Closure Criteria and/or reclamation standard. As such, the confirmation excavation sidewall soil samples sufficiently defined the horizontal periphery of impacts. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

CLOSURE REQUEST

Based on laboratory analytical results for final confirmation excavation soil samples, WPX believes that residual soil impacts associated with the four inadvertent releases have been excavated and removed from the Site. The remediation areas have been re-seeded with BLM Seed Mix #2 and hand-broadcasted to match vegetative conditions surrounding the Site. WPX also believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment and groundwater. As a result, NFA appears warranted at this time, and WPX requests Closure of this CRR associated with Incident Numbers nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755, respectively.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera (432) 305-6416 or erick@etechenv.com. Appendix G provides correspondence email notification receipts associated with the subject release.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Herrera Staff Geologist

Ericl &

Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map – Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2A: Excavation Soil Sample Locations

Figure 2B: Excavation Soil Sample Locations

Appendix B: Referenced Well Records

Appendix C: Photographic Logs

Appendix D: Tables

Appendix E: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F: NMOCD Notifications

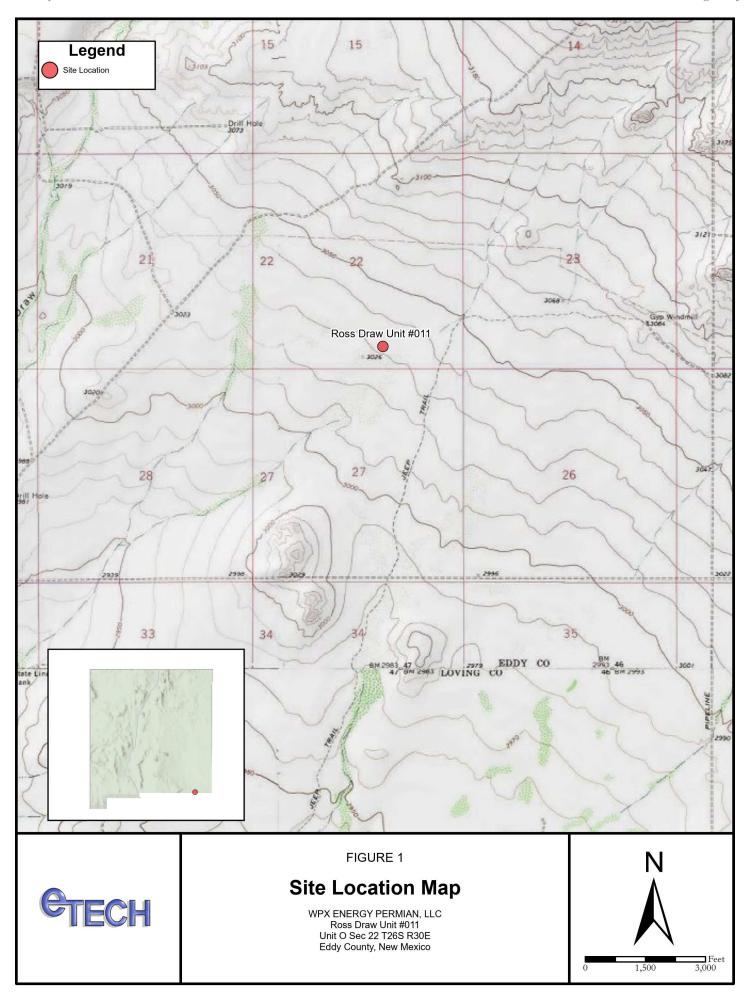
Appendix G: Approved Remediation Work Plan

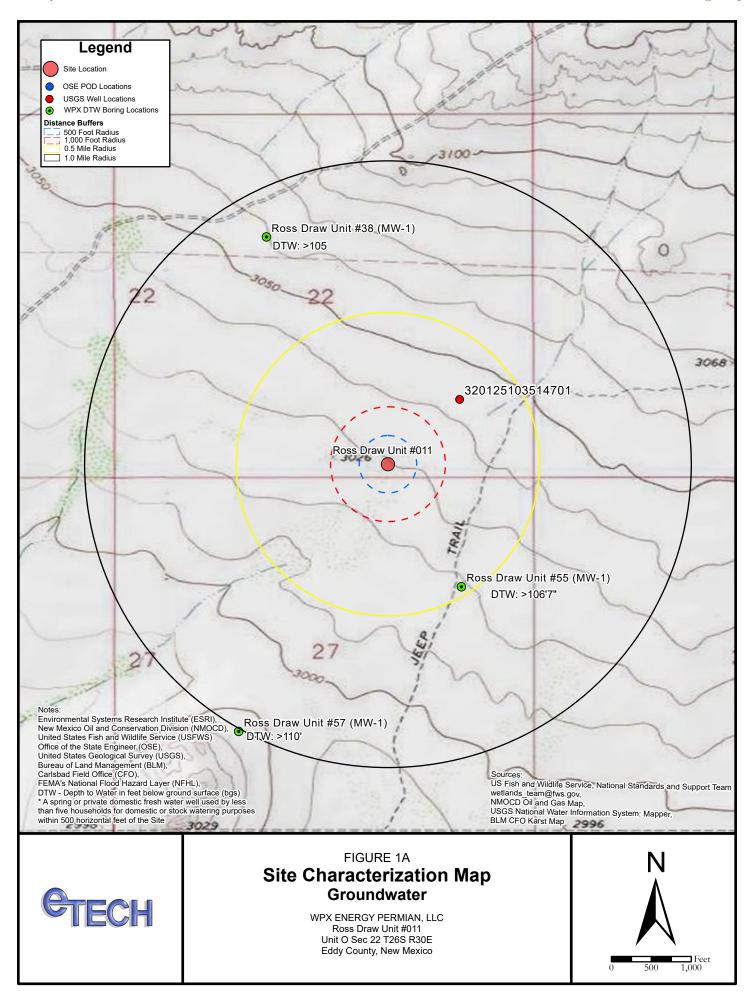
APPENDIX A

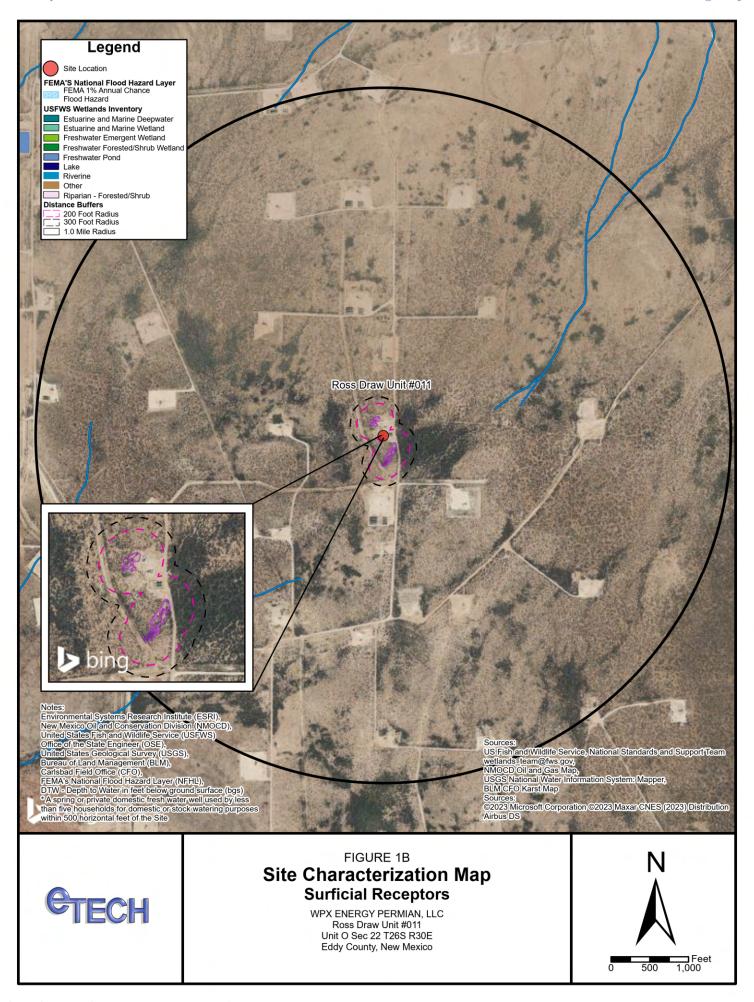
Figures

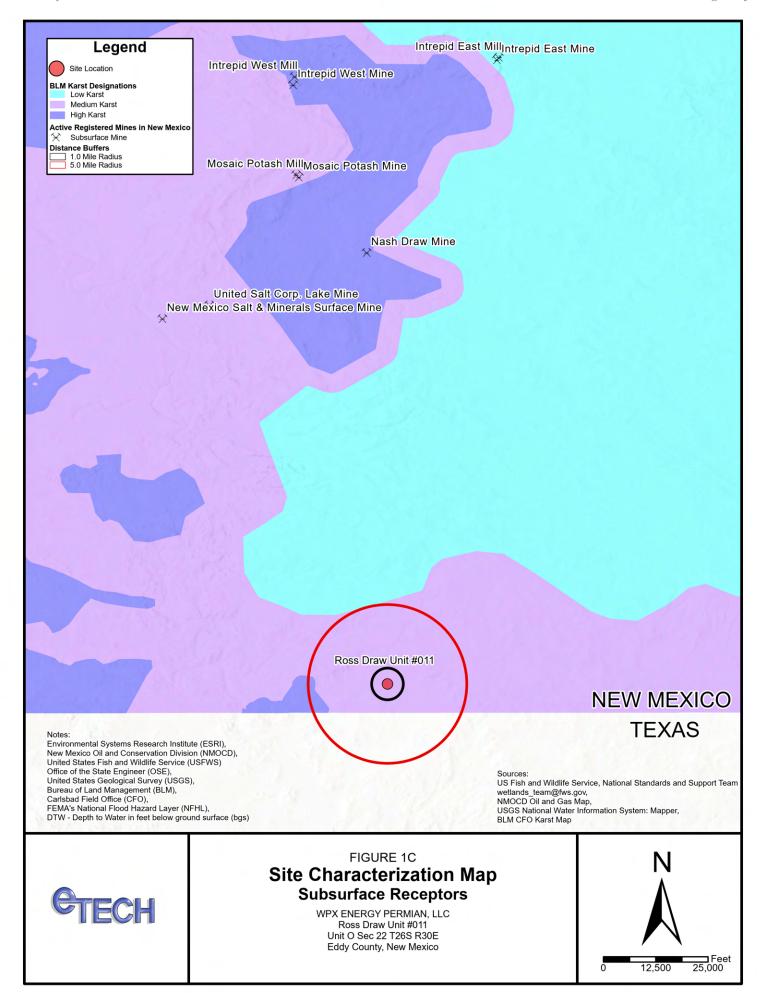
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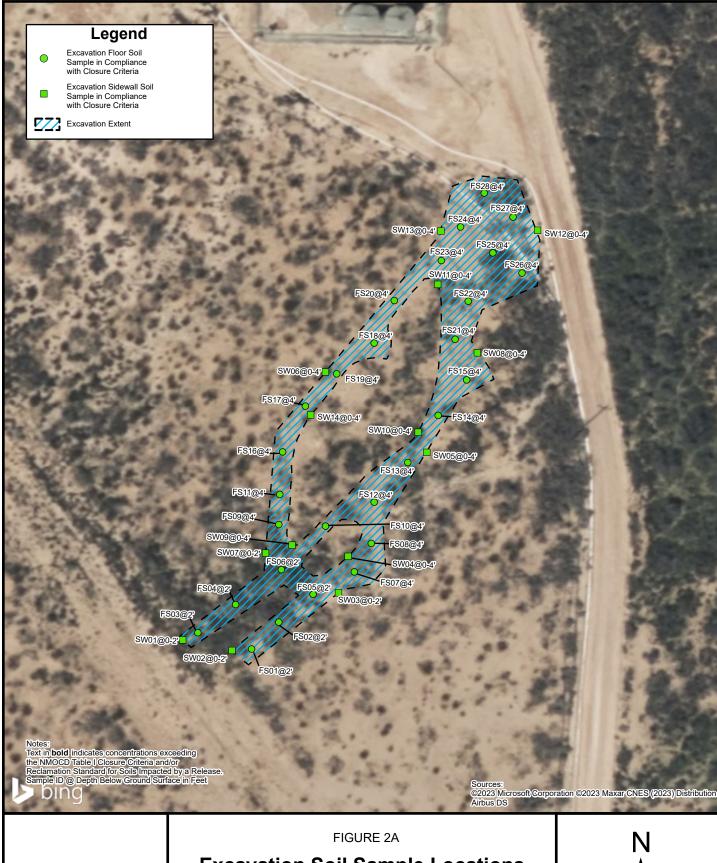








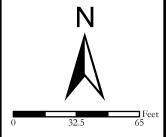






Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC Ross Draw Unit #011 Unit O Sec 22 T26S R30E Eddy County, New Mexico



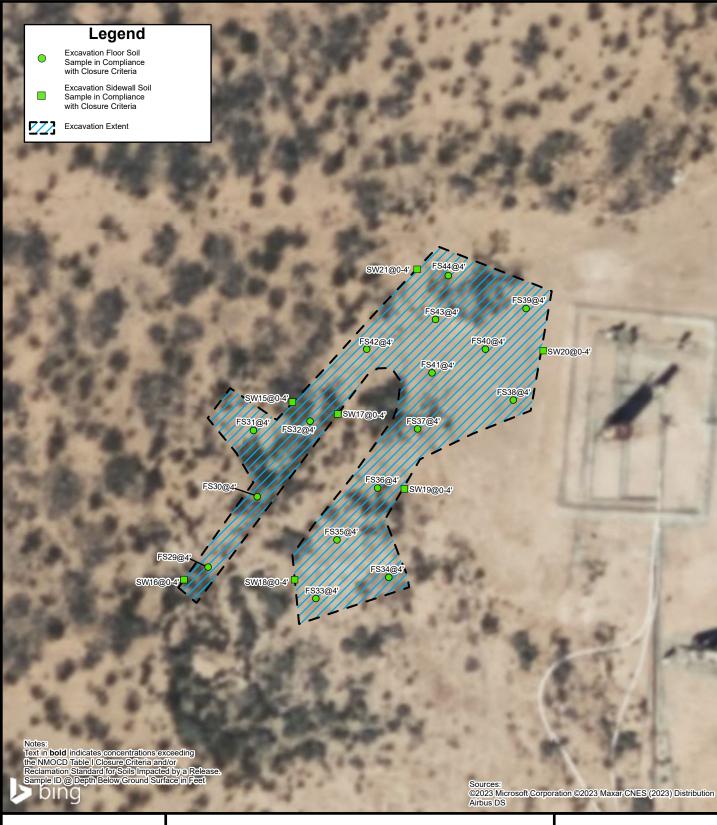
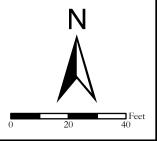




FIGURE 2B

Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC Ross Draw Unit #011 Unit O Sec 22 T26S R30E Eddy County, New Mexico



APPENDIX B

Referenced Well Records

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		HR							MONITORING W	ELL COMPLETION	N DIAGRAM
\nearrow		CO	MPL	IAN	C F		Boring/Wel		W-1	Location: Ross Draw U	Init #55
	79	SO	LUI	101	NS		Date:			Client:	
Drilling Me	ethod:		Sampling N	Method:			Logged By:		2/2020	WPX Ene	ergy
Α	Air Rotar	,	. 0	No	ne				nn, PG	Talon L	PE
Gravel Pack	k Type: 0/20 Sar		Gravel Pac	k Depth Into	erval: Bags		Seal Type:	lone	Seal Depth Interval: None	Latitude:	65
Casing Typ		Diameter:		Depth Inter				al Depth (ft. BC		32.0161 Longitude:	03
PVC		2-inch		0-101'7					5'7"	-103.863	
Screen Typ PVC	e:	Slot: 0.010-ir	nch	Diameter: 2-inch	Depth 1 101'7"	interval:	Well Total	Depth (ft. BGS): 5 '7''	Depth to Water (ft. BTOC): >106' 7"	DTW Date: 12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID		y/Remarks	Well Completion
0 5 10 15	NM	L	D	N	N	NM	SP	NS	_	olored poorly graded n minor silt	-
20 25 30	NM	L	D	N	N	NM	SW	NS	_	ell graded fine sand in and coarse sand	-
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	_	n poorly graded fine minor gravel	-
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS		ded fine sand with regravel	
90 95	NM	L	D	N	N	NM	SP	NS	with minor silt and	ly graded fine sand minor medium sand	$[\ \] \]$
100 106'7"	NM	M	D	N	N	NM	SC	NS		d with moderate silt TD 106'7"	

APPENDIX C

Photographic Logs

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PHOTOGRAPHIC LOG

WPX Energy Permian, LLC
Ross Draw Unit #011
Incident Numbers: nAB1712951426, nAB1728553778, nAB1728551205, and
nAPP2200728755



Photograph 1 Date: 10/26/2023

Description: Southeastern view of excavation activities from the southern excavation.

Photograph 2 Date: 10/26/2023 Description: Southwestern view of excavation activities from the southern excavation.



Position. +032 021536" / -103.866876" (±15.7ft)
Allitude 30381 (±10.8ft)
Datum W35-8
Azimuth Bearing. 028 N.29E 0498m1ts True (±12")
Plevation Angle. -0.07"
Zoom 0.5 X
ROUTI

Photograph 3 Date: 10/26/2023

Description: Northeastern view of excavation activities from the southern excavation.

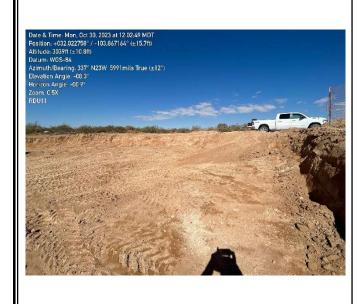
Photograph 4 Date: 10/26/2023

Description: Northeastern view of excavation activities from the southern excavation.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC
Ross Draw Unit #011
Incident Numbers: nAB1712951426, nAB1728553778, nAB1728551205, and
nAPP2200728755



Photograph 1 Date: 10/30/2023
Description: Northwestern view of excavation activities from the northern excavation.



Photograph 3 Date: 10/30/2023 Description: Southwestern view of excavation activities from the northern excavation.



Photograph 2 Date: 10/30/2023 Description: Northwestern view of excavation activities from the northern excavation.



Photograph 4 Date: 10/30/2023 Description: Southwestern view of excavation activities from the northern excavation.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC
Ross Draw Unit #011
Incident Numbers: nAB1712951426, nAB1728553778, nAB1728551205, and
nAPP2200728755



)23

Photograph 6 Date: 11/28/2023

Description: Southwestern view of restoration activities of the southern excavation.

Photograph 5 Date: 11/28/2023 Description: Northwestern view of restoration activities of the southern excavation.



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Allimote Mississi (1-11), and
Datuma Wississi (1-11), and
Anaport Mississi (1-11), and

Photograph 7 Date: 11/28/2023

Description: Southeast view of restoration activities of the northern excavation.

Photograph 8 Date: 11/28/2023

Description: Southwest view of restoration activities of the northern excavation.

APPENDIX D

Tables

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Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
	Date	(reet bys)	(IIIg/kg)	(ilig/kg)	(ilig/kg)	(ilig/kg)	(mg/kg)	(ilig/kg)	(ilig/kg)	(llig/kg)
NMOCD Table I Closur Release (NMAC 19.15.2		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
			Excavation Soil S	amples - Incident Num	bers nAB1712951426,	nAB1728553778, nAB1	1728551205, and naPP2	2200728755		
FS01	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS02	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS03	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS04	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.1
FS05	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.9
FS06	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.9
FS07	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
FS08	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180
FS09	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290
FS10	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,350
FS11	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,240
FS12	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,270
FS13	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,490
FS14	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,370
FS15	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,410
FS16	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,240
FS17	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	935
FS18	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	383
FS19	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	429
FS20	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,220
FS21	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	466
FS22	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	422
FS23	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	984
FS24	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	957
FS25	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,230
FS26	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,990
FS27	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,210
FS28	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,220
FS29	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.6
FS30	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.9
FS31	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	262



Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Release (NMAC 19.15.2		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
FS32	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	506
FS33	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	503
FS34	10/27/2023	4	<0.0250	<0.0500	<20.0	58.3	<50.0	58.3	58.3	472
FS35	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,430
FS36	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,220
FS37	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,130
FS38	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	281
FS39	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS40	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,070
FS41	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,260
FS42	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,660
FS43	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,610
FS44	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,630
SW01	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW02	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW03	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW04	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.1
SW05	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.6
SW06	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.5
SW07	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.7
SW08	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.3
SW09	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.0
SW10	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	29.7
SW11	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW12	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	86.2
SW13	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
SW14	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	90.3
SW15	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.3
SW16	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW17	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	52.0
SW18	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	27.1



Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closur Release (NMAC 19.15.		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
SW19	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	26.8
SW20	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	162
SW21	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics

DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in bold exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard | for Soils Impacted by a Release

† The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas, to be immediately reclaimed

following remediation pursuant to NMAC 19.15.17.13.

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310074

Job Number: 01058-0007

Received: 10/12/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/17/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/17/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310074

Date Received: 10/12/2023 8:25:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/12/2023 8:25:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 2'	5
FS02 2'	6
FS03 2'	7
FS04 2'	8
FS05 2'	9
FS06 2'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/23 09:46

Client Sample ID	Lab Sample ID Matri	x Sampled	Received	Container
FS01 2'	E310074-01A Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS02 2'	E310074-02A Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS03 2'	E310074-03A Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS04 2'	E310074-04A Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS05 2'	E310074-05A Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS06 2'	E310074-06A Soil	10/06/23	10/12/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS01 2' E310074-01

	E3100/4-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: RKS		Batch: 2341068
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0500	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
	97.5 %	70-130	10/12/23	10/12/23	
mg/kg	mg/kg	Analys	st: RKS		Batch: 2341068
ND	20.0	1	10/12/23	10/12/23	
	89.4 %	70-130	10/12/23	10/12/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2341072
ND	25.0	1	10/12/23	10/12/23	
ND	50.0	1	10/12/23	10/12/23	
	108 %	50-200	10/12/23	10/12/23	
mg/kg	mg/kg	Analys	st: IY		Batch: 2341077
ND	20.0	1	10/12/23	10/13/23	
_	mg/kg ND ND ND ND ND ND ND ND ND mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 mg/kg mg/kg ND 20.0 89.4 % mg/kg ND 25.0 ND 50.0 108 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MB/kg mg/kg Analys ND 20.0 1 89.4 % 70-130 70-130 mg/kg mg/kg Analys ND 25.0 1 ND 50.0 1 108 % 50-200 mg/kg Mg/kg Analys	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0500 1 10/12/23 ND 0.0250 1 10/12/23 MD 0.0250 1 10/12/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/12/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/12/23 ND 50.0 1 10/12/23 ND 50.0 1 10/12/23 ND 50.0 1 10/12/23 ND 50.0 1 10/12/23	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0500 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/12/23 10/12/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/12/23 10/12/23 ND 25.0 1 10/12/23 10/12/23 ND 50.0 1 10/12/23 10/12/23 ND 50.0 1 10/12/23 10/12/23 ND 50.0 1 10/12/23



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS02 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		99.8 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2341077



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS03 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		103 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2341077
· · · · · · · · · · · · · · · · · · ·	ND	<u> </u>	·	10/12/23	10/12/23	.,,



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS04 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		102 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2341077
Chloride	24.1	20.0	1	10/12/23	10/12/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS05 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		96.6 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2341077
	23.9	20.0		10/12/23	10/12/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS06 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		100 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2341077
·	23.9	20.0		10/12/23	10/12/23	•



QC Summary Data

		QU		ary Duc	••				
WPX Energy - Carlsbad		Project Name:	R	OSS DRAW	UNIT #011				Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	G	Gilbert Moreno)			10/	17/2023 9:46:36AM
			raanice	by EPA 802)1R				
		voiatile O	rgames	Uy EFA 602	21B				Analyst: RKS
Analyte		Reporting	Spike	Source		Rec	DDD	RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341068-BLK1)							Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			
LCS (2341068-BS1)							Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.2	70-130			
Toluene	4.66	0.0250	5.00		93.2	70-130			
o-Xylene	4.65	0.0250	5.00		93.0	70-130			
p,m-Xylene	9.43	0.0500	10.0		94.3	70-130			
Total Xylenes	14.1	0.0250	15.0		93.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			
Matrix Spike (2341068-MS1)				Source:	E310074-0)2	Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Benzene	4.42	0.0250	5.00	ND	88.4	54-133			
Ethylbenzene	4.37	0.0250	5.00	ND	87.4	61-133			
Toluene	4.43	0.0250	5.00	ND	88.6	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.94	0.0500	10.0	ND	89.4	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			
Matrix Spike Dup (2341068-MSD1)				Source:	E310074-0)2	Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Benzene	4.46	0.0250	5.00	ND	89.1	54-133	0.784	20	
Ethylbenzene	4.41	0.0250	5.00	ND	88.3	61-133	0.970	20	
Toluene	4.46	0.0250	5.00	ND	89.2	61-130	0.636	20	
o-Xylene	4.46	0.0250	5.00	ND	89.2	63-131	1.09	20	
p,m-Xylene	9.03	0.0500	10.0	ND	90.3	63-131	0.933	20	
Total Xylenes	13.5	0.0250	15.0	ND	89.9	63-131	0.983	20	

8.00

7.64

95.6

70-130



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				10/	17/2023 9:46:36Al
	Non	halogenated	Organics l	oy EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2341068-BLK1)							Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			
LCS (2341068-BS2)							Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			
Matrix Spike (2341068-MS2)				Source:	E310074-	02	Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
Matrix Spike Dup (2341068-MSD2)				Source:	E310074-	02	Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	1.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	^
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				I	.0/17/2023 9:46:36AI	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: KM		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2341072-BLK1)							Prepared: 1	0/12/23 Aı	nalyzed: 10/12/23	
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	51.7		50.0		103	50-200				
LCS (2341072-BS1)							Prepared: 10/12/23 Analyzed: 10/12/23			
Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132				
urrogate: n-Nonane	49.2		50.0		98.3	50-200				
Matrix Spike (2341072-MS1)				Source: E310074-06			Prepared: 10/12/23 Analyzed: 10/12/23			
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132				
urrogate: n-Nonane	50.8		50.0		102	50-200				
Matrix Spike Dup (2341072-MSD1)	S		Source:	Source: E310074-06			Prepared: 10/12/23 Analyzed: 10/12/23			
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	0.193	20		
Gurrogate: n-Nonane	51.2		50.0		102	50-200				



Matrix Spike Dup (2341077-MSD1)

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manage	: 0	ROSS DRAW U 11058-0007 Gilbert Moreno				10	Reported: 0/17/2023 9:46:36AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2341077-BLK1)							Prepared: 1	0/12/23 Ana	alyzed: 10/12/23
Chloride	ND	20.0							
LCS (2341077-BS1)							Prepared: 1	0/12/23 Ana	alyzed: 10/12/23
Chloride	255	20.0	250		102	90-110			
Atrix Spike (2341077-MS1)			Source: E310074-0			01	Prepared: 1	10/12/23 Analyzed: 10/12/23	
Chloride	262	20.0	250	ND	105	80-120			

250

20.0

Source: E310074-01

103

80-120

1.37

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.



Prepared: 10/12/23 Analyzed: 10/13/23

20

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/23 09:46

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: WPX Energy Permian, LLC.			Bill To	Bill To						b Use Only					AT .	EPA P	rogram		
Project: Brushy Gathering Facility					Attention: Jim Raley		Lab WO#				Job				1D 2D 3D		Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E310074			+	OK	555	5-8007			5 day TAT			
Address: 13000 W County Rd 100 City, State, Zip: Carlsbad, NM, 8822			20							nd Metho				Real States		RCRA			
City, Sta	te, Zip_Od	dessa,TX,	79765		Phone: 575-885-7502										T	П	SECTION AND ADDRESS.		
Phone: 8	32-541-7	719			Email: jim.raley@dvn.com		1	015										State	
Email: D	evon-tear	n@etech	env.com		WO: 21153712		1	by 8							1		NM CO	UT AZ	TX
					Incident ID: NHMP1412241998,		1	TPH GRO/DRO/ORO by 8015											
					nAB1712951426, nAB1728553778			3/02		_	_	0.0		ΣN	1				
Collecte	d by: Edyt	e Konan			nAB1728551205_nAPP220072875		-	JO/DE	802	3260	010	300		1		×			
Time	Date		No. of	C		Lab	T H	GRC	k by	þ	als 6	Chloride 300.0		200		2			
Sampled	Sampled	Matrix	Containers	Sample ID		Number	Depth(ft.)	TPH	BTEX by 8023	VOC by 8260	Metals 6010	양		верос		GDOC		Remarks	
0.00	10 6 22				FC01														
9:00	10.6.23	S	1		FS01		2'							X					
9:10	10.6.23	S	1		FS02	2	21							T.,					
9.10	10.0.23	3	1		F302	2	2'							X					
9:20	10.6.23	S	1		FS03	3	2'							T.,					
5.20	10.0.23	3	1		F303		2							Х					
9:30	10.6.23	S	1		FS04	/1	2'							\ ,					
3.30	10.0.23	3			F304	4	2							Х					
9:40	10.6.23	S	1		FS05	-	2'							٦.,					
3.40	10.0.25					5	-							X					
9:50	10.6.23	S	1		FS06	10	2'												
5.50	10.0.23	3	1		1300	6	2							Х			•		
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					799										1				
				10110123															
				10.															
Addition	nal Instruc	tions:														-	•		
I, (field sam	pler), attest to	the validity	and authen	ticity of this sample.	I am aware that tampering with or intentionally misla	belling the sam	ole loca	ition,									eceived on ice the da	G (G)	pled or
date or time	e of collection	is considere	d fraud and	may be grounds for I	egal action. Sampled by: GM						receive	ed pack	red in Ice at a	n avg te	mp abo	ve 0 but	less than 6 °C on sul	sequent days.	
Relinquish	ed by: Signa	ture)	Date		Received by: (Signature)	Date		Time		a		F USA		L	ab U	se On	ly		
7	#		[0]	10123 12:	20 middle tours	10-10-	23	10	221	0	Rec	eive	d on ice:	6	7/1	1			
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ruce	ille t	bruk	_ 10		100 mores mello	10.11	1	1	73	7	T1			T2		garage.	T3		
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- de	Jan	My	150 10	.11.72 2	200 1 1. 1/1 Mar	10.12.	73	X	2	5	AVG	Ter	np °C	4					
Sample Mat	trix: S - Soil, Se	1 - Solid, Sg -	Sludge, A -	Aqueous, O - Other _	· · · · · · · · · · · · · · · · · · ·	Container	Type							ber ø	lass.	v - VO	A		
					unless other arrangements are made. Hazardo													nalysis of th	e above
					poratory with this COC. The liability of the labora										.pe.10		. Sport for the d	, 5.5 5. 11	





Project Informati
Pross D

Chain of Custody

Page_	_1_	_ of _	_1_	erved
n				by O

D: 3/14/2024 5:49:54 AM

Client: W	/PX Energ	y Permia	in, LLC.	++,0		Bill To		F		la	hHe	e Or	lv				TA	Т	FDA D	rogram
	Brushy Ga			1	Δ±	tention: Jim Raley		Lab	WO			_	Numb	a	1D	20	3D	Standard	CWA	SDWA
	Aanager:				Ad	dress: 5315 Buena Vista Dr.				574					10	20	30	5 day TAT	CVVA	SUVA
	13000 W				THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUM	City, State, Zip: Carlsbad, NM, 88220		-	210	<u> </u>	_	Analysis and Metho					July IAI		RCRA	
	te, Zip_O		MINERAL CONTRACTOR			one: 575-885-7502						Titaly	313 0110	ivietno						NCNA
	32-541-7	-			BOSE -	nail: jim.raley@dvn.com			315										State	
Email: D	evon-tear	n@etech	env.com		THE RESERVE AND PERSONS ASSESSED.	D: 21153712			у 8(NM CO	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	TVI
					THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU	ident ID: NHMP1412241998,			TPH GRO/DRO/ORO by 8015									IVIVI CO	UI AZ	10
					THE REAL PROPERTY.	B1712951426, nAB1728553778,			0/0	_			0		5					
Collecte	d by: Edyt	e Konan			1 (CHESTO)	B1728551205 nAPP2200728755		-	MD/DR	802	VOC by 8260	010	300		NM		X			
Time	Date	Matrix	No. of	C		ONLINE THE PROPERTY OF THE PARTY OF THE PART	Lab	Depth(ft.)	GRC	(by	by 8	ols 6	ride		00	9	U	×1		
Sampled	Sampled	iviatrix	Containers	Sample II			Number	Depl	TPH	втех	VOC	Metals 6010	Chloride 300.0		верос		GDOC		Remarks	The same of
9:00	10.6.23	S	1	its spile		F604											-		,	
9.00	10.0.23	3	-			FS01		2'							X			(torr	ecter	proje
9:10	10.6.23	S	1	Mark 12		FS02	1	21			1	80 Mg							200	
5.10	10.0.23	3	1			F302	2	2'							X			mm	to	match
9:20	10.6.23	5	1			FS03	3	2'			(diametric									
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Addition	nal Instru	ctions:																		
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	trix: S - Soil, S						Container	Туре	: g - g	glass, p	p - p	oly/p	lastic,	ag - amb	er gl	ass, v	- VO	4		
Note: 5am	ples are dis	carded 30 d	ays after re	suits are re	ported unless of	her arrangements are made. Hazardou	is samples wil	be re	turne	d to cli	ent o	r disp	osed of	at the clie	nt ex	pense	. The	report for the an	alysis of the	above

envirotech grant en analysis of the above

Page 40 of 457

Printed: 10/12/2023 12:24:09PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/12/23 0	8:25		Work Order ID:	E310074
Phone:	(539) 573-4018	Date Logged In:	10/11/23 1:	5:32		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/17/23 1	7:00 (3 day TAT)			
1. Does th 2. Does th 3. Were sa 4. Was the	Custody (COC) e sample ID match the COC? e number of samples per sampling site location matamples dropped off by client or carrier? c COC complete, i.e., signatures, dates/times, request I samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e., 15 minute hold time, are not included in this disucssis.	sted analyses?	No Yes Yes Yes Yes	Сагтіег: <u>С</u>	<u>Courier</u>	Comment	s/Resolution
Sample T	urn Around Time (TAT)	on.		I			
	COC indicate standard TAT, or Expedited TAT?		Yes		Project na	ame on sample	containers did not
Sample C	<u>ooler</u>				match the	project name	on COC. Client
7. Was a s	ample cooler received?		Yes		asked to c	hange the pro	ject name on the
8. If yes, v	vas cooler received in good condition?		Yes		COC.	<i>O</i> 1 .	,
9. Was the	sample(s) received intact, i.e., not broken?		Yes		000.		
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling risible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C	ontainer_						
14. Are aq	ueous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
Sa Da	el Tield sample labels filled out with the minimum info mple ID? The collected? The collected? The collected of the collected	ormation:	Yes Yes Yes				
	reservation_		103				
21. Does t	he COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	netals?	No				
Multipha	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
28. Are sa	act Laboratory mples required to get sent to a subcontract laborato subcontract laboratory specified by the client and it	-	No NA	Subcontract Lab	o: NA		
Client In	<u>struction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310126

Job Number: 01058-0007

Received: 10/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/25/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/25/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310126

Date Received: 10/19/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/19/2023 8:15:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS07 4'	6
FS08 4'	7
FS09 4'	8
FS10 4'	9
FS11 4'	10
FS12 4'	11
FS13 4'	12
FS14 4'	13
FS15 4'	14
FS16 4'	15
FS17 4'	16
FS18 4'	17
FS19 4'	18
FS20 4'	19
FS21 4'	20
FS22 4'	21
FS23 4'	22
FS24 4'	23
FS25 4'	24
FS26 4'	25

Table of Contents (continued)

	FS27 4'	26
	FS28 4'	27
Q	C Summary Data	28
	QC - Volatile Organics by EPA 8021B	28
	QC - Nonhalogenated Organics by EPA 8015D - GRO	30
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	32
	QC - Anions by EPA 300.0/9056A	34
D	efinitions and Notes	36
С	hain of Custody etc.	37

Sample Summary

_				
ſ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/23 12:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 4'	E310126-01A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS08 4'	E310126-02A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS09 4'	E310126-03A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS10 4'	E310126-04A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS11 4'	E310126-05A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS12 4'	E310126-06A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS13 4'	E310126-07A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS14 4'	E310126-08A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS15 4'	E310126-09A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS16 4'	E310126-10A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS17 4'	E310126-11A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS18 4'	E310126-12A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS19 4'	E310126-13A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS20 4'	E310126-14A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS21 4'	E310126-15A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS22 4'	E310126-16A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS23 4'	E310126-17A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS24 4'	E310126-18A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS25 4'	E310126-19A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS26 4'	E310126-20A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS27 4'	E310126-21A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS28 4'	E310126-22A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS07 4' E310126-01

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0500	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
	94.9 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
ND	20.0	1	10/19/23	10/20/23	
	89.5 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
ND	25.0	1	10/19/23	10/20/23	
ND	50.0	1	10/19/23	10/20/23	
	103 %	50-200	10/19/23	10/20/23	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076
1260	20.0	1	10/19/23	10/19/23	
	mg/kg ND ND ND ND ND ND ND ND ND mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 89.5 % mg/kg MB/kg mg/kg ND 25.0 ND 50.0 103 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 70-130 0 mg/kg mg/kg Ana ND 20.0 1 89.5 % 70-130 0 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 103 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0500 1 10/19/23 ND 0.0250 1 10/19/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 ND 50.0 1 10/19/23 ND 50.0 1 10/19/23 ND 50.0 1 10/19/23 ND 50.0 1 10/19/23 Mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0500 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 <

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS08 4'

E310126-02

	ъ «:				
Result		Dilution	Prepared	Analyzed	Notes
Result	Limit			rmaryzed	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0500	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
	95.8 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
ND	20.0	1	10/19/23	10/20/23	
	88.8 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
ND	25.0	1	10/19/23	10/20/23	
ND	50.0	1	10/19/23	10/20/23	
	98.8 %	50-200	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
	ND Mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 ND 20.0250 88.8 % mg/kg MB 20.0 88.8 % mg/kg ND 25.0 ND 50.0 98.8 %	Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 25.8% 70-130 mg/kg mg/kg Anal ND 20.0 1 88.8% 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 98.8% 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0500 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 ND 50.0 1 10/19/23 98.8 % 50-200 10/19/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0500 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 mg/kg 70-130 10/19/23 10/20/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS09 4'

E310126-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		101 %	50-200	10/19/23	10/20/23	
	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2342076
Anions by EPA 300.0/9056A	mg/ng	88				



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS10 4'

		E310126-04					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066	
Benzene	ND	0.0250	1	10/19/23	10/20/23		
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23		
Toluene	ND	0.0250	1	10/19/23	10/20/23		
o-Xylene	ND	0.0250	1	10/19/23	10/20/23		
o,m-Xylene	ND	0.0500	1	10/19/23	10/20/23		
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23		
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/19/23	10/20/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/20/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23		
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23		
Surrogate: n-Nonane		102 %	50-200	10/19/23	10/20/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076	
Chloride	1350	20.0	1	10/19/23	10/19/23		



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS11 4' E310126-05

		E310120-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.4 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2342076
Chloride	1240	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS12 4' E310126-06

		E310120-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2342076
Chloride	1270	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS13 4'

		E310126-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.4 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2342076
Chloride	1490	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS14 4'

E31	01	26	-08

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2342076
Chloride	1370	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS15 4'

		E310126-09				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2342076
Chloride	1410	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS16 4' E310126-10

		E310120-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allaryzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		95.2 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	1240	20.0	1	10/19/23	10/19/23	



Chloride

Sample Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS17 4'

E310126-11						
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		96.2 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2342076

20.0

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10/19/23

10/19/23



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS18 4'

E 2 1	$\Lambda 1$	21	11
E31		76.	

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		95.4 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2342076
Chloride	383	20.0	1	10/19/23	10/19/23	· · · · · · · · · · · · · · · · · · ·



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS19 4'

E310126-1	E3	10	12	6-	1	1
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.2 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: BA		Batch: 2342076



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS20 4'

		E310126-14				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	nalyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	nalyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.5 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: BA		Batch: 2342076
Chloride	2220	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS21 4' E310126-15

		E310120-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Thatye	resuit	- Emili	Bitation	Trepured	7 Hary Zea	rotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		106 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076
Chloride	466	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS22 4'

		E310126-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		102 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2342076
Chloride	422	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS23 4'

		E310126-17						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066		
Benzene	ND	0.0250	1	10/19/23	10/20/23			
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23			
Toluene	ND	0.0250	1	10/19/23	10/20/23			
o-Xylene	ND	0.0250	1	10/19/23	10/20/23			
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23			
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23			
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/20/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/20/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23			
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23			
Surrogate: n-Nonane		99.8 %	50-200	10/19/23	10/20/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076		
Chloride	984	20.0	1	10/19/23	10/20/23	·		



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS24 4'

		E310126-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
o,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		97.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076
Chloride	957	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS25 4' E310126-19

		E310120-19				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Amaryte	Result	Limit	Dilution	Trepared	Maryzea	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		96.7 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076
Chloride	1230	20.0	1	10/19/23	10/20/23	·



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS26 4' E310126-20

		E310120-20				
	D 1	Reporting	D.1 (;	D 1		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		95.9 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	1990	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS27 4'

		E310126-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342065
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
o-Xylene	ND	0.0250	1	10/19/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342065
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		82.7 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2342077
Chloride	3210	40.0	2	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS28 4'

E310126-22

		ъ «				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		lyst: RKS	7111117,200	Batch: 2342065
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2342065
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		84.7 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2342077
Chloride	3220	40.0	2	10/19/23	10/20/23	·



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/25/2023 12:15:12PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2342065-BLK1) Prepared: 10/19/23 Analyzed: 10/19/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.49 8.00 93.7 70-130 LCS (2342065-BS1) Prepared: 10/19/23 Analyzed: 10/19/23 4.49 89.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.50 0.0250 5.00 90.1 70-130 4.62 0.0250 5.00 92.4 70-130 Toluene o-Xylene 4.63 0.0250 5.00 92.6 70-130 9.33 10.0 93.3 70-130 0.0500 p.m-Xvlene 93.0 70-130 14.0 15.0 Total Xylenes 0.0250 8.00 93.8 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.51 Matrix Spike (2342065-MS1) Source: E310123-04 Prepared: 10/19/23 Analyzed: 10/19/23 4.39 0.0250 5.00 ND 87.7 54-133 Benzene ND 61-133 Ethylbenzene 4.39 0.0250 5.00 87.7 Toluene 4.51 0.0250 5.00 ND 90.1 61-130 4.51 ND 63-131 5.00 90.3 0.0250 o-Xylene p,m-Xylene 9.08 0.0500 10.0 ND 90.8 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.42 8.00 Matrix Spike Dup (2342065-MSD1) Source: E310123-04 Prepared: 10/19/23 Analyzed: 10/19/23 4.54 0.0250 5.00 ND 90.7 54-133 3.36 4.55 61-133 3.72 0.0250 5.00 ND 91.0 20 Ethylbenzene 61-130 Toluene 4 68 0.0250 5.00 ND 93.6 3.73 20

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

93.9

94.3

94.2

93.4

63-131

63-131

63-131

70-130

3.93

3.85

3.87

20

20

20



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

4.70

9.43

14.1

7.47

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/25/2023 12:15:12PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2342066-BLK1) Prepared: 10/19/23 Analyzed: 10/20/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.66 8.00 95.8 70-130 LCS (2342066-BS1) Prepared: 10/19/23 Analyzed: 10/20/23 5.21 104 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.11 0.0250 5.00 102 70-130 5.18 0.0250 5.00 104 70-130 Toluene 103 o-Xylene 5.13 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 104 70-130 15.5 15.0 Total Xylenes 0.0250 8.00 96.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.71 Matrix Spike (2342066-MS1) Source: E310126-02 Prepared: 10/19/23 Analyzed: 10/20/23 5.19 0.0250 5.00 ND 54-133 Benzene ND 102 61-133 Ethylbenzene 5.10 0.0250 5.00 Toluene 5.16 0.0250 5.00 ND 103 61-130 ND 102 63-131 5.11 5.00 0.0250 o-Xylene p,m-Xylene 10.4 0.0500 10.0 ND 104 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.70 8.00 Matrix Spike Dup (2342066-MSD1) Source: E310126-02 Prepared: 10/19/23 Analyzed: 10/20/23 5.39 0.0250 5.00 ND 54-133 3.75 ND 61-133 3.70 5.29 0.0250 5.00 106 20 Ethylbenzene 61-130 Toluene 5.36 0.0250 5.00 ND 107 3.82 20 5.31 5.00 ND 106 63-131 3.84 20 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

108

107

96.5

63-131

63-131

70-130

3.91

3.89

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.8

16.1

7.72

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage		lbert Moreno				10/	25/2023 12:15:12P
	Non	halogenated	Organics l	by EPA 801	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2342065-BLK1)							Prepared: 1	0/19/23 Ana	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
LCS (2342065-BS2)							Prepared: 1	0/19/23 Ana	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			
Matrix Spike (2342065-MS2)				Source:	E310123-)4	Prepared: 1	0/19/23 Ana	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
Matrix Spike Dup (2342065-MSD2)				Source:	E310123-	04	Prepared: 1	0/19/23 Ana	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130	10.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				10	/25/2023 12:15:12P	
	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: RKS		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2342066-BLK1)							Prepared: 1	0/19/23 Ana	alyzed: 10/20/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130				
LCS (2342066-BS2)							Prepared: 1	0/19/23 Ana	alyzed: 10/20/23	
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.5	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130				
Matrix Spike (2342066-MS2)				Source:	Source: E310126-02			Prepared: 10/19/23 Analyzed: 10/20/23		
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.3	70-130				
Matrix Spike Dup (2342066-MSD2)				Source:	E310126-0	02	Prepared: 1	0/19/23 Ana	alyzed: 10/20/23	
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130	2.03	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130				

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno					10/25/2023 12:15:12P
	Nonhalogenated Organics by EPA 8015D - DRO/ORO						Analyst: KM		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342068-BLK1)							Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.7		50.0		101	50-200			
LCS (2342068-BS1)							Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
urrogate: n-Nonane	49.6		50.0		99.2	50-200			
Matrix Spike (2342068-MS1)				Source:	E310126-0	05	Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132			
urrogate: n-Nonane	57.5		50.0		115	50-200			
Matrix Spike Dup (2342068-MSD1)				Source:	E310126-0	05	Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	8.64	20	
urrogate: n-Nonane	53.1		50.0		106	50-200			

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				1	0/25/2023 12:15:12P
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342098-BLK1)							Prepared: 10	0/20/23 Ar	nalyzed: 10/21/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			
LCS (2342098-BS1)							Prepared: 10	0/20/23 Ar	nalyzed: 10/21/23
Diesel Range Organics (C10-C28)	226	25.0	250		90.4	38-132			
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			
Matrix Spike (2342098-MS1)				Source:	E310184-	02	Prepared: 10	0/20/23 Ar	nalyzed: 10/21/23
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			
Matrix Spike Dup (2342098-MSD1)				Source:	E310184-	02	Prepared: 10	0/20/23 Ar	nalyzed: 10/21/23
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.1	38-132	0.0528	20	
Surrogate: n-Nonane	42.6		50.0		85.3	50-200			

Chloride

QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Anions	by	EPA	300.	.0/9	056A
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Analy	ıst.	B

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342076-BLK1)						F	repared: 1	0/19/23 Analy	yzed: 10/19/23
Chloride	ND	20.0							
LCS (2342076-BS1)						F	repared: 1	0/19/23 Analy	yzed: 10/19/23

Chloride	241	20.0	250		96.5	90-110		
Matrix Spike (2342076-MS1)				Source:	E310126-0)3	Prepared: 10/19/23 Analyzed: 10/19/23	
Chloride	1600	20.0	250	1290	125	80-120	MI	
Matrix Spike Dup (2342076-MSD1)				Source:	E310126-0)3	Prepared: 10/19/23 Analyzed: 10/19/23	

250

1290

98.0

80-120

20.0

1530

Chloride

M1

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		OSS DRAW U 1058-0007	NIT #011				Rep	ported:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					10/25/2023	3 12:15:12PM
		Anions	by EPA	300.0/9056A					Analy	rst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPE Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%		Notes
Blank (2342077-BLK1)							Prepared:	10/19/23	Analyzed:	10/20/23
Chloride	ND	20.0								
LCS (2342077-BS1)							Prepared:	10/19/23	Analyzed:	10/20/23
Chloride	253	20.0	250		101	90-110				
Matrix Spike (2342077-MS1)				Source:	E310127-0	1	Prepared:	10/19/23	Analyzed:	10/20/23
Chloride	688	20.0	250	253	174	80-120				M1
Matrix Spike Dup (2342077-MSD1)				Source:	E310127-0	1	Prepared:	10/19/23	Analyzed:	10/20/23

250

20.0

192

80-120

6.32

732

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.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/23 12:15

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: V	VPX Energ	y Permia	n, LLC.		Bill To			ilawa (La	ab U	se On	ly				TA	AT.		EPA P	rogram
Project:	ROSS DRA	TINU WA	#011		Attention: Jim Raley		Lab	WO			Job	Num	ber _	1D	2D	3D	Star	ndard	CWA	SDWA
Project I	Manager:	Gilbert N	loreno		Address: 5315 Buena Vista Dr.			310		0	90	58	.0007				5 da	ay TAT		
Address	: 13000 W	/ County	Rd 100		City, State, Zip: Carlsbad, NM, 882	20							nd Metho	d						RCRA
City, Sta	te, Zip_O	dessa, TX,	79765		Phone: 575-885-7502									Π					_	
Phone: 8	332-541-7	719			Email: jim.raley@dvn.com			by p											State	
Email: D	evon-tear	n@etech	env.com		WO: 21153712			ORG						1			L	MM CO	UT AZ	TX
9 24					Incident ID: mNHMP1412241998, nAB171			JRO/	121	00	0	0.00		ΣZ		¥				
-	d by: Edyt	e Konan			nAB1728553778, nAB1728551205, nAPP22007		E.	RO/I)y 80	y 82	601	de 3(اي			1	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
9:00	10.16.23	S	1		FS07	1	4'							х						
9:10	10.16.23	S	1		FS08	2	4'						1	х						
9:20	10.16.23	S	1		FS09	3	4'							х						
9:30	10.16.23	S	1		FS10	4	4'							х						
9:40	10.16.23	S	1		FS11	5	4'							х						
9:50	10.16.23	S	1		FS12	6	4'							х						
10:00	10.16.23	S	1		FS13	7	4'							х						
10:10	10.16.23	S	1		FS14	8	4'							х						
10:20	10.16.23	S	1		FS15	9	4'							х						
10:30	10.16.23	S	1		FS16	10	4'							х						
Addition	al Instruc	tions:				- Indiana in an														
1 16:-11	1 1										Ic.		dala a th	050	untics	uet ba	racalizad	on ice the de	w they are s-	moled or
				ticity of this sample. may be grounds for	I am aware that tampering with or intentionally mis- legal action. Sampled by: 6M	abelling the sar	nple lo	cation	,				uiring thermal ked in ice at a							
	ed by Sign		Date	Time	Received by: (Signature)	Date -		Time	9		36.52		S. C. S. Waggiow		ab U	se Or	nlv			
1.3	To the		10/	18/23 12	(b Carrillington	N10.18	II	3/6	210)	Rec	eive	d on ice:		Y)/ 1					
Relinquish	ed by: (Sign:	The ful	Date	1823)	Received by: (Signature)	Date 10-18	.23	Time	the .)	T1			T2				Т3		
Relinquish	ed by: (Signa	musso	Date	18.13 Time	Hao Cuth Mar	Date 10-19-2	23	N N	15	5		3 Tel	mp°C_L	1						
				Aqueous, O - Other	- Curre 11 W				- glas	s. n -			ic, ag - an	ber	glass	v - VC	OA.			
			11 (A)		unless other arrangements are made. Hazard													ort for the	analysis o	of the above
					boratory with this COC. The liability of the labo										LIPS.		0.50			



envirotech

Client: V	VPX Energ	y Permia	n, LLC.		Bill To				L	ab U	se On	nly				TA	AT		EPA	Program
The state of the s	ROSS DRA		The state of the s		Attention: Jim Raley		Lab	WO:	#		Job				2D	3D		ndard	CWA	SDWA
and the second s	Manager:				Address: 5315 Buena Vista Dr.		E	310	12	6	OIC	SE	50007				5 d	ay TAT		
	: 13000 W		The state of the s		City, State, Zip: Carlsbad, NM, 882	20					Analy	sis ar	nd Metho	d						RCRA
Personne	te, Zip_O		79765		Phone: 575-885-7502											-2,1		and the second		
	332-541-7				Email: jim.raley@dvn.com			by by											State	
Email: D	evon-tear	n@etech	env.com		WO: 21153712			ORC								- 19		NM CC	UT	Z TX
Collecte	d by: Edyt	e Konan			Incident ID: mNHMP1412241998, nAB1712 nAB1728553778, nAB1728551205, nAPP220072		13	O/DRO/	8021	8260	2010	300.0		Z		X		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		ВББОС		GDOC			Rema	ks
10:40	10.16.23	S	1		FS17	11	4'							x						
10:50	10.16.23	S	1		FS18	12	4'							х						
11:00	10.16.23	S	1		FS19	13	4'							х						
11:10	10.16.23	S	1		FS20	14	4'							х						
11:20	10.16.23	S	1		FS21	15	4'							х						
11:30	10.16.23	S	1		FS22	100	4'							х						
11:40	10.16.23	S	1		FS23	17	4'							х						
11:50	10.16.23	S	1		FS24	18	4'							х						
12:00	10.16.23	S	1		FS25	19	4'							х						
12:10	10.16.23	S	1		FS26	20	4'							x				No.		
Addition	al Instruc	tions:																W LEE ON A STATE OF THE STATE O		
200				ticity of this sample. may be grounds for	I am aware that tampering with or intentionally misla legal action. Sampled by: SM	belling the san	ple lo	ocation	,		333		iiring thermal ked in ice at a							
Relinquish	ed by: (Sign	ature)	Date	18/23 \2	Received by: (Signature)	Date 18	32	5 Time	2	10	Rec	eived	d on ice:		ab U		nly			
1000	ed tay: /Sign:	K (M)	ll B	18.23	Received by: (Signature)	Date 10.19	3.2	3 l	800)	T1_			<u>T2</u>				<u>T3</u>		_
	ed by Sign	AUSSO	Date lo:	18.73 Time	Received by: (Algoriture) Hoo Suth Man	- 10.19.2	23	Z:	15	-	AVG	3 Ten	np °C	4						
Sample Mat	rix: S - Soil, S	d - Solid, Sg -		Aqueous, O - Other		Containe	r Ty	pe: g	glas	s, p -	poly/	plast	ic, ag - an	nber g	glass,	v - VC	DΑ			
					unless other arrangements are made. Hazardo									client	expe	nse. T	The rep	ort for the	ne analysi	s of the abov
samples is	applicable o	only to thos	e samples i	received by the lal	boratory with this COC. The liability of the labora	atory is limite	d to t	he am	ount	paid f	for on t	the re	port.							



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Client: WPX Energy Permian, LLC. Project: ROSS DRAW UNIT #011 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip_Odessa,TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechenv.com Collected by: Edyte Konan Time Sampled Matrix No. of Containers Sampled Matrix No. of Containers Sampled Sampled Matrix No. of Containers Sampled Sampled Sampled Matrix No. of Containers Sampled Sampled Sampled Matrix No. of Containers Sampled Sampled Sampled Sampled No. of Containers Sampled Sampled Sampled Sampled Sample ID Project: ROSS DRAW UNIT #011 Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728551205, nAPP2200728755 Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sampled Sampled Matrix No. of Containers Sample ID Time Sampled Sample	126	Analy	Numb	er 0007 d Metho		2D :	TA ³ D	Standard 5 day TAT	CWA	SDWA
Project: ROSS DRAW UNIT #011 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip_Odessa,TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechenv.com Collected by: Edyte Konan Time Sampled Sampled Matrix No. of Sample ID Date Sampled Sampled Matrix No. of Containers Sample ID Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755 Lab Number 12:20 10:16:23 S 1 FS27 4' Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755 12:20 10:16:23 S 1 FS27 4' Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755 12:20 10:16:23 S 1 FS27 4' Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778	126	Job Olc Analy	Numb S8· (∞ 7	od	2D		Standard	CWA	SDWA
Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip_Odessa,TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechenv.com Collected by: Edyte Konan Time Sampled Matrix No. of Sampled Sampled Matrix Sampled Sampled Sampled Sampled Sampled Sampled Number Time Sampled No. of Containers Sample ID Time Sampled No. of Containers Sample ID FS27 Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755 Lab Number Number Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755 Lab Number Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB17	120	Analy	ysis and	∞ 7	od					
Address: 13000 W County Rd 100 City, State, Zip_Odessa,TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechenv.com Collected by: Edyte Konan Time Sampled Sampled Matrix No. of Sample ID Time Sampled		Anal	sis and		od					DCD.
Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755 Lab Number Sampled	BTEX by 8021	VOC by 8260 Metals 6010	nloride 300.0		NN					RCRA
Wo: 21153712 Incident ID: mNHMP1412241998, nAB1712951426, nAB1728553778, nAB1728553778, nAB1728553778, nAB1728553778, nAPP2200728755	BTEX by 8021	VOC by 8260 Metals 6010	nloride 300.0		MN					
12:20 10.16.23 S 1 FS27 Z1 4'	BTEX by 8021	VOC by 8260 Metals 6010	nloride 300.0		N N				State	
12:20 10.16.23 S 1 FS27 Z1 4'	BTEX by 8021	VOC by 8260 Metals 6010	nloride 300.0		ΣZ			NM CO	UT AZ	TX
12:20 10.16.23 S 1 FS27 Z1 4'	BTEX by	VOC by	loride	- 1	1		¥	×		
12:20 10.16.23 S 1 FS27 Z1 4'			U		BGDOC		GDOC		Remarks	
					х					
					х					
				-						
										The second second
10/18/23							1			
10119				+						
							1			
		1								
Additional Instructions:										
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, attended to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, are or time of collection is considered fraud and may be grounds for legal action.	,							eceived on ice the da less than 6 °C on su		
ate or time of collection is considered fraud and may be grounds for legal action. Sampled by: Sampled by: Sampled by: Signature Date 10/18/23 2/0 Reseived by: Signature Date 10/18/23	210	ADCIDS.	eived	on ice:		ab Use	e Onl	ly		
Page Page Page Page Page Page Page Page		<u>T1</u>			<u>T2</u>			<u>T3</u>		
In New Mr. 10.18.03 Time Received by Signature) Date Time Received by Signature 10.19.23 8:	:15	127737	3 Temp		1					
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - gote: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned.	alace n	- poly/	nlastic		shor -	lace	110			



Page 80 of 457

Printed: 10/19/2023 12:10:56PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/19/23	08:15		Work Order ID:	E310126
Phone:	(539) 573-4018	Date Logged In:	10/18/23	16:49		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/25/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	en ine eee	Yes Yes	a : 6			
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: C	<u>ourier</u>		
	Il samples received within holding time?	ica anaryses:	Yes				
3. Were a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		103			Comment	s/Resolution
Sample T	<u> Curn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	,	temperature. 1	<u> </u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contains		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	iers conecteur	105				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborator	n/9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	NI A		
		so who.	1421	Subcontract Lat	, NA		
Client In	<u>istruction</u>						

Page 40 of 40

Date

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310296

Job Number: 01058-0007

Received: 10/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/3/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/3/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310296

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS29 4'	5
FS30 4'	6
FS31 4'	7
FS32 4'	8
FS33 4'	9
FS34 4'	10
FS35 4'	11
FS36 4'	12
FS37 4'	13
FS38 4'	14
FS39 4'	15
FS40 4'	16
QC Summary Data	17
QC - Volatile Organics by EPA 8021B	17
QC - Nonhalogenated Organics by EPA 8015D - GRO	18
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	19
QC - Anions by EPA 300.0/9056A	20
Definitions and Notes	21
Chain of Custody etc.	22

Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/03/23 16:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS29 4'	E310296-01A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS30 4'	E310296-02A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS31 4'	E310296-03A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS32 4'	E310296-04A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS33 4'	E310296-05A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS34 4'	E310296-06A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS35 4'	E310296-07A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS36 4'	E310296-08A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS37 4'	E310296-09A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS38 4'	E310296-10A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS39 4'	E310296-11A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS40 4'	E310296-12A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS29 4' E310296-01

Result	Reporting Limit		n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0500	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
	98.0 %	70-130	10/31/23	10/31/23	
mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
ND	20.0	1	10/31/23	10/31/23	
	89.0 %	70-130	10/31/23	10/31/23	
mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
ND	25.0	1	11/01/23	11/02/23	
ND	50.0	1	11/01/23	11/02/23	
	91.1 %	50-200	11/01/23	11/02/23	
mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
39.6	20.0	1	11/02/23	11/03/23	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 mg/kg mg/kg ND 20.0 89.0 % mg/kg ND 25.0 ND 50.0 91.1 % mg/kg mg/kg mg/kg	mg/kg mg/kg An ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 98.0 % 70-130 mg/kg mg/kg An ND 20.0 1 89.0 % 70-130 1 mg/kg mg/kg An ND 25.0 1 ND 50.0 1 91.1 % 50-200 mg/kg mg/kg An	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0500 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/01/23 ND 50.0 1 11/01/23 ND 50.0 1 11/01/23 mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 ND 0.0500 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 10/31/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 10/31/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/01/23 11/02/23 ND 50.0 1 11/01/23 11/02/23 MD 50.0 1 11/01/23 11/02/23 mg/kg mg/kg



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS30 4'

		E310296-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	10/31/23	
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23	
Toluene	ND	0.0250	1	10/31/23	10/31/23	
o-Xylene	ND	0.0250	1	10/31/23	10/31/23	
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23	
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		92.4 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2344079
Chloride	37.9	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS31 4' E310296-03

		1510270 05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	10/31/23	
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23	
Toluene	ND	0.0250	1	10/31/23	10/31/23	
p-Xylene	ND	0.0250	1	10/31/23	10/31/23	
o,m-Xylene	ND	0.0500	1	10/31/23	10/31/23	
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		91.8 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2344079
Chloride	262	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS32 4'

		E310296-04				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	10/31/23	
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23	
Toluene	ND	0.0250	1	10/31/23	10/31/23	
o-Xylene	ND	0.0250	1	10/31/23	10/31/23	
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23	
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		90.4 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
Chloride	506	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS33 4'

		E310296-05				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	10/31/23	
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23	
Toluene	ND	0.0250	1	10/31/23	10/31/23	
o-Xylene	ND	0.0250	1	10/31/23	10/31/23	
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23	
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		91.7 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
Chloride	503	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS34 4'

		E310296-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	10/31/23	
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23	
Toluene	ND	0.0250	1	10/31/23	10/31/23	
o-Xylene	ND	0.0250	1	10/31/23	10/31/23	
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23	
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2344026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	58.3	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		92.5 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2344079
Chloride	472	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS35 4' E310296-07

		20102>0 0.				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
o,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		86.1 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2344079
Chloride	1430	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS36 4'

E3102	96-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		88.7 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2344079
Chloride	5220	100	5	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS37 4'

		E310296-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		89.4 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2344079
Chloride	2130	400	20	11/02/23	11/03/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS38 4'

		E310296-10				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		86.5 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
Chloride	281	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS39 4'

E310296-11

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		90.7 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2344079
Chloride	3340	400	20	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS40 4'

E310296-12

		D				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		91.6 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
Chloride	3070	100	5	11/02/23	11/03/23	



		QC 50	411111	ary Data	•				
WPX Energy - Carlsbad		Project Name:		ROSS DRAW U	NIT #011				Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		Gilbert Moreno					11/3/2023 4:40:22PM
Carisbad Nivi, 88220		Project Manager:		Gilbert Moreno					11/3/2023 4.40.22FW
	Volatile Organics by EPA 8021B								Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344026-BLK1)							Prepared: 1	0/31/23 A	analyzed: 10/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			
LCS (2344026-BS1)							Prepared: 10	0/31/23 A	analyzed: 10/31/23
Benzene	4.60	0.0250	5.00		92.0	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.8	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.89	0.0250	5.00		97.9	70-130			
p,m-Xylene	9.78	0.0500	10.0		97.8	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			
Matrix Spike (2344026-MS1)				Source:	E310296-0	3	Prepared: 1	0/31/23 A	analyzed: 10/31/23
Benzene	4.57	0.0250	5.00	ND	91.4	54-133			
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133			
Toluene	4.80	0.0250	5.00	ND	95.9	61-130			
o-Xylene	4.87	0.0250	5.00	ND	97.3	63-131			
p,m-Xylene	9.71	0.0500	10.0	ND	97.1	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			
Matrix Spike Dup (2344026-MSD1)				Source:	E310296-0	3	Prepared: 1	0/31/23 A	analyzed: 10/31/23
Benzene	4.50	0.0250	5.00	ND	89.9	54-133	1.61	20	
Ethylbenzene	4.66	0.0250	5.00	ND	93.3	61-133	1.02	20	
Toluene	4.74	0.0250	5.00	ND	94.8	61-130	1.20	20	
o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131	1.07	20	
p,m-Xylene Total Xylenes	9.63 14.4	0.0500	10.0	ND	96.3	63-131	0.815	20	
		0.0250	15.0	ND	96.3	63-131	0.900	20	



70-130

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				1	1/3/2023 4:40:22PN
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2344026-BLK1)							Prepared: 1	0/31/23 Ana	alyzed: 10/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			
LCS (2344026-BS2)							Prepared: 10	0/31/23 Ana	alyzed: 10/31/23
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			
Matrix Spike (2344026-MS2)				Source:	E310296-	03	Prepared: 1	0/31/23 Ana	alyzed: 10/31/23
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			
Matrix Spike Dup (2344026-MSD2)				Source:	E310296-0	03	Prepared: 1	0/31/23 Ana	alyzed: 10/31/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.5	70-130	6.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	1				11/3/2023 4:40:22PN
	Nonha	logenated Or		Analyst: KM					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344044-BLK1)							Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2344044-BS1)							Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
Matrix Spike (2344044-MS1)				Source:	E310296-	01	Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2344044-MSD1)				Source:	E310296-	01	Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132	0.813	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			



Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		OSS DRAW U 1058-0007	JNIT #011				Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					11/3/2023 4:40:22PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344079-BLK1)							Prepared: 1	1/02/23 A	nalyzed: 11/03/23
Chloride	ND	20.0							
LCS (2344079-BS1)							Prepared: 1	1/02/23 A	nalyzed: 11/03/23
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2344079-MS1)				Source:	E310296-0)2	Prepared: 1	1/02/23 A	nalyzed: 11/03/23
Chloride	289	20.0	250	37.9	101	80-120			
Matrix Spike Dup (2344079-MSD1)				Source:	E310296-0)2	Prepared: 1	1/02/23 A	nalvzed: 11/03/23

250

20.0

80-120

98.5

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.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/03/23 16:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Clent: W	/PX Energ	y Permia	n, LLC.		T I	Bill To		<u> </u>		Le	b U	e On	ıly					Ť	ÄT		EPA P	rogram
	ROSS DRA				Atte	ntion: Jim Raley		Lab	WOF	· .		dol				1D	2D	3D		andard	CWA	SDWA
	Aanager:					ress: 5315 Buena Vista Dr.		Ŀ	30	29				$\cdot \infty$					5 (day TAT		
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	13000 W					State, Zip: Carlsbad, NM, 88220)					Analy	sis a	nd Me	thod							RCRA
	e, Zip_Oc		79765		Phot	ne: 575-885-7502]			
	32-541-7				<u>Ema</u>	il: jim.raley@dvn.com			4												State	
Mail: D	evon-tear	n@etech	env.com			/WO; MM-155117,AL.RNM			ğ											NM CO	UT AZ	X
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Time Sampled	Date Sempled	Matrix	No. of Containers	Sample ID)		Lab Number	Oepth(ft.)	TPH GRO/DRO/ORD by BOLS	8TEX by 8021	VOC by 8260	Metats 6010	Chloride 300.0			BGDOC		200			Remarks	
2:00	10.27.23	S	1			FS29	١	4'								x						
12:10	10.27.23	S	1			FS30	2	4'								x						:
12:20	10.27,23	S	1			FS31	3	4'								х						
12:30	10.27.23	S	1			FS32	4	4'								x						
12:40	10.27.23	S	1			FS33	5	4'								X						
12:50	10.27.23	S	1			FS34	9	4'								x						
13:00	10.27.23	S	1			FS35	7	4'						ì		x				_		
13:10	10.27.23	S	1		- 	FS36	8	4'								x						
13:20	10.27.23	s	1			FS37	9	4'								x						
13:30	10.27.23	s	1			FS38	10	4	<u> </u>							x				_		
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Sample Ma	trtoc 5 - Solt, 5	d - Solid, Sg	- Sludge, A	Aqueous, O -	Other		Containe	r Tyş	e: g -	glass	, p -	ροίγ/(plastl	c, ag -	amb	er g	ass, \	/ - VQ)A	·		
						er arrangements are made. Hazardous th this COC. The liability of the laborato	samples w	tll be	returr	ed to	clien	or di	spose	d of at						port for the	analysis o	the above



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mail: De	von-tean	@etech	env.com		_	S/WO: MM-155117.AL.RNM		┪	ğ	l			•						N	M CO	UT AZ	TX
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ent expense. The report for the analysis of the above

envirotech

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envirotech Inc.

Printed: 10/30/2023 12:47:19PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23	08:30		Work Order ID:	E310296
Phone:	(539) 573-4018	Date Logged In:	10/30/23	11:25		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	11/03/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	e number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comments	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes, v	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes				
Sample C		remperature. 1	<u>~</u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·	ners concecea:	103				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	ormation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does t	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does t	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborato	ary?	No				
	subcontract laboratory specified by the client and i	•	NA	Subcontract Lab	· NA		
		i so who.	1471	Subcontract Lac), INA		
Client In	<u>struction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310308

Job Number: 01058-0007

Received: 11/1/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/7/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/7/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310308

Date Received: 11/1/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS41 4'	5
FS42 4'	6
FS43 4'	7
FS44 4'	8
QC Summary Data	9
QC - Volatile Organic Compounds by EPA 8260B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:15

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS41 4'	E310308-01A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS42 4'	E310308-02A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS43 4'	E310308-03A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS44 4'	F310308-04A Soil	10/30/23	11/01/23	Glass Jar. 2 oz.



7	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
4	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
(Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

FS41 4' E310308-01

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	RKS		Batch: 2344042
Benzene	ND	0.0250	1		11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1		11/01/23	11/02/23	
Toluene	ND	0.0250	1		11/01/23	11/02/23	
o-Xylene	ND	0.0250	1		11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1		11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1		11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.9 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst:	RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.9 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1		11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/03/23	11/03/23	
Surrogate: n-Nonane		108 %	50-200		11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	BA		Batch: 2344118
Chloride	3260	400	20	n ———	11/04/23	11/06/23	



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:15:42PM

FS42 4'

E310308-02

		E510500-02				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		106 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		106 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		113 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2344118
Chloride	2660	400	20	11/04/23	11/06/23	

WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:15:42PM

FS43 4'

E310308-03

		E510500-05				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		112 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2344118



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:15:42PM

FS44 4'

E310308-04

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		106 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2344118
			20	11/04/23	11/06/23	



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/7/2023 3:15:42PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344042-BLK1) Prepared: 11/01/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.508 0.500 102 70-130 0.500 99.6 70-130 Surrogate: Toluene-d8 0.498 LCS (2344042-BS1) Prepared: 11/01/23 Analyzed: 11/02/23 2.43 0.0250 2.50 97.4 70-130 Benzene 2.42 2.50 70-130 96.8 Ethylbenzene 0.0250 2.35 0.0250 2.50 94.0 70-130 2.38 95.4 70-130 0.0250 2.50 o-Xylene 4.68 5.00 93.7 70-130 p,m-Xylene 0.0500 7.07 0.0250 7.50 94.2 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.509 0.500 102 70-130 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.502 70-130 Surrogate: Toluene-d8 0.495 0.500 Matrix Spike (2344042-MS1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.40 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.39 0.0250 2.50 ND 95.7 ND 92.3 48-130 Toluene 2.31 0.0250 2.50 2.36 0.0250 2.50 ND 94.3 43-135 o-Xylene 4.60 5.00 ND 91.9 43-135 p,m-Xylene 0.0500 Total Xylenes 6.95 0.0250 7.50 ND 92.7 43-135 Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 0.512 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 98.2 70-130 0.491 Surrogate: Toluene-d8 Matrix Spike Dup (2344042-MSD1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.42 0.0250 2.50 ND 96.7 48-131 0.685 23 0.0250 2.50 ND 96.4 45-135 0.771 27 Ethylbenzene ND 93.1 48-130 0.885 24 2.33 2.50 Toluene 0.0250 o-Xylene 2.38 0.0250 2.50 ND 95.4 43-135 1.18 27 5.00 ND 93.5 43-135 27 4.68 1.76 p,m-Xylene 0.0500



27

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

7.06

0.513

0.510

0.491

0.0250

7.50

0.500

0.500

0.500

ND

94.2

103

102

98.2

43-135

70-130

70-130

70-130

1.56

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #011Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/20233:15:42PM

5315 Buena Vista Dr		Project Number:		1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					11/7/2023 3:15:42PM
	Nor	halogenated C	rganics	by EPA 801:	5D - GI	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	:
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344042-BLK1)							Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
LCS (2344042-BS2)							Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Gurrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2344042-MS2)				Source: E	310305-2	23	Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			
Matrix Spike Dup (2344042-MSD2)				Source: E	310305-2	23	Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	3.21	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			

0.500

0.500

0.502

100

99.9

70-130

70-130



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/7/2023 3:15:42PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344083-BLK1)							Prepared:	11/03/23	Analyzed: 11/03/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			
LCS (2344083-BS1)							Prepared:	11/03/23	Analyzed: 11/03/23
Diesel Range Organics (C10-C28)	247	25.0	250		99.0	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			
Matrix Spike (2344083-MS1)				Source:	E310308-	04	Prepared:	11/03/23	Analyzed: 11/03/23
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike Dup (2344083-MSD1)				Source:	E310308-	04	Prepared:	11/03/23	Analyzed: 11/03/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	0.736	20	
Surrogate: n-Nonane	54.7		50.0		109	50-200			



Chloride

M2, R3

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ROSS DRAW U 1058-0007	NIT #011				Rep	orted:
Carlsbad NM, 88220		Project Manager:		Gilbert Moreno					11/7/2023	3:15:42PM
		Anions	by EPA	300.0/9056A					Analyst	t: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%		Notes
Blank (2344118-BLK1)							Prepared:	11/04/23	Analyzed: 1	1/06/23
Chloride	ND	20.0								
LCS (2344118-BS1)							Prepared:	11/04/23	Analyzed: 1	1/06/23
Chloride	253	20.0	250		101	90-110				
Matrix Spike (2344118-MS1)				Source:	E310306-2	26	Prepared:	11/04/23	Analyzed: 1	1/06/23
Chloride	363	200	250	593	NR	80-120				M2
Matrix Spike Dup (2344118-MSD1)				Source:	E310306-2	26	Prepared:	11/04/23	Analyzed: 1	1/06/23

250

200

67.2

80-120

70.7

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.



Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:15

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Did Not Ignite

DNI

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Phone: 832-541-7719

Sampled

10:00

10:10

10:20

10:30

Collected by: Edyte Konan

Sampled

10.30.23

10.30.23

10.30.23

10.30.23

Client: WPX Energy Permian, LLC.

Project Manager: Gilbert Moreno

Address: 13000 W County Rd 100

City, State, Zip_Odessa, TX, 79765

Email: Devon-team@etechenv.com

Matrix

S

S

S

S

Containers

1

1

1

1

Sample ID

Project: ROSS DRAW UNIT #011

Lab

Number

2

3

Lab WO#

TPH GRO/DRO/ORO by 8015

4'

4'

Bill To

Attention: Jim Raley

Phone: 575-885-7502

FS41

FS42

FS43

FS44

1013112023

Email: jim.raley@dvn.com

WBS/WO: MM-155117.AL.RNM

Address: 5315 Buena Vista Dr.

City, State, Zip: Carlsbad, NM, 88220

Incident ID: mNHMP1412241998, nAB1712951426.

nAB1728553778, nAB1728551205, nAPP2200728755

EPA Program

CWA

State

Remarks

NM CO UT AZ TX

SDWA

RCRA

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Received by OCD: 3/14/2024 5:49:54 AM

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Additional Instructions:									
, (field sampler), attest to the validity and a date or time of collection is considered frau	and the second second		e that tampering with or intentionally mislabo . Sampled by: GM	elling the sample loo	ation,			received on ice the day they are sampled o at less than 6 °C on subsequent days.	or
Relinquished by: (Signature)	Date 1013112023	Time	Received by: (Signature) Willie Layla	Date 103123	Time 1045	Received on ice:	Lab Use On	nly	
Relinquished by: (Signature) Wille Cough	Date 10-31-23	1545	Received by: (Signature)	Date 10.31.23	113 ₀	T1	<u>T2</u>	<u>T3</u>	
Relinquished by: (Signature)	Date 10.31.23	1400	Received by: (Signature)	Date 1 23	7:30	AVG Temp °C	1		
Sample Matrix: S - Soil, Sd - Solid, Sg - Slude			her arrangements are made. Hazardou			poly/plastic, ag - an			ahove
			ith this COC. The liability of the laborate	70			cheff expense.	the report for the dilarysis of the t	20040



01058-0007

Analysis and Method

ΣZ

BGDOC

Х

X

X

X

Job Number

Chloride 300.0

TAT

5 day TAT

1D 2D 3D Standard

X

GDOC

Lab Use Only

E310308 64106 0031

VOC by 8260

BTEX by 802.

isposed of at the client expense. The report for the analysis of the above the report.

Page 118 enviroteches

Page 119 of 457

Printed: 11/1/2023 3:57:30PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/01/23	08:30	Work Order ID:	E310308
Phone:	(539) 573-4018	Date Logged In:	10/31/23	15:02	Logged In By:	Lacey Rodgers
Email:	devon-team@ensolum.com	Due Date:	11/07/23	17:00 (4 day TAT)		
Chain a	f Custody (COC)					
			37			
	the sample ID match the COC? The number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ion and coc	Yes Yes	Comion Counion		
	ne COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	Carrier: <u>Courier</u>		
	all samples received within holding time?	sied unaryses.	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		103		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers	?	Yes			
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field La	<u>bel</u>					
20. Were	field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation the COC or field labels indicate the samples were p	racamiad?	No			
	sample(s) correctly preserved?	reserveu?				
	o filteration required and/or requested for dissolved n	natole?	NA No			
		iletais:	No			
	ase Sample Matrix	0				
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
	ract Laboratory					
	samples required to get sent to a subcontract laborato a subcontract laboratory specified by the client and i	•	No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					
						_

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310073

Job Number: 01058-0007

Received: 10/12/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 1/3/24

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/3/24

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310073

Date Received: 10/12/2023 8:25:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/12/2023 8:25:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW01 0-2'	5
SW02 0-2'	6
SW03 0-2'	7
SW04 0-4'	8
SW05 0-4'	9
SW06 0-4'	10
SW07 0-2'	11
SW08 0-4'	12
SW09 0-4'	13
SW10 0-4'	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc	20

Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/03/24 11:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-2'	E310073-01A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW02 0-2'	E310073-02A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW03 0-2'	E310073-03A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW04 0-4'	E310073-04A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW05 0-4'	E310073-05A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW06 0-4'	E310073-06A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW07 0-2'	E310073-07A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW08 0-4'	E310073-08A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW09 0-4'	E310073-09A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW10 0-4'	E310073-10A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW01 0-2' E310073-01

		E310073-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		76.5 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2341076
Chloride	ND	20.0	1	10/12/23	10/13/23	

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW02 0-2'

		E310073-02				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		69.8 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2341076
Chloride	ND	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW03 0-2'

		E310073-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		74.2 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2341076
Chloride	ND	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW04 0-4'

		E310073-04					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068	
Benzene	ND	0.0250	1	10/12/23	10/12/23		
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23		
Toluene	ND	0.0250	1	10/12/23	10/12/23		
o-Xylene	ND	0.0250	1	10/12/23	10/12/23		
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23		
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23		
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/12/23	10/12/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	10/12/23	10/12/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2341066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23		
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23		
Surrogate: n-Nonane		69.5 %	50-200	10/12/23	10/13/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2341076	
Chloride	20.1	20.0	1	10/12/23	10/13/23	·	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW05 0-4' E310073-05

		E3100/3-05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		79.1 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2341076
Chloride	23.6	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW06 0-4'

		E310073-06				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		75.9 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2341076
Chloride	20.5	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW07 0-2'

		E310073-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		75.9 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2341076
Chloride	22.7	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW08 0-4'

		E310073-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		77.9 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2341076
Chloride	28.3	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW09 0-4' E310073-09

		E3100/3-09				
Analyta	Result	Reporting Limit	Dilution	Dronoro d	Analyzed	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		79.3 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2341076
Chloride	30.0	20.0	1	10/12/23	10/13/23	·



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW10 0-4' E310073-10

		E3100/3-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Frepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		76.3 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2341076
Chloride	29.7	20.0	1	10/12/23	10/13/23	



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 1/3/2024 11:06:06AM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2341068-BLK1) Prepared: 10/12/23 Analyzed: 10/12/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.61 8.00 95.1 70-130 LCS (2341068-BS1) Prepared: 10/12/23 Analyzed: 10/12/23 4.67 93.4 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.61 0.0250 5.00 92.2 70-130 4.66 0.0250 5.00 93.2 70-130 Toluene 93.0 o-Xylene 4.65 0.0250 5.00 70-130 9.43 10.0 94.3 70-130 0.0500 p.m-Xvlene 93.9 70-130 14.1 15.0 Total Xylenes 0.0250 8.00 94.7 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.58 Matrix Spike (2341068-MS1) Source: E310074-02 Prepared: 10/12/23 Analyzed: 10/12/23 4.42 0.0250 5.00 ND 54-133 Benzene ND 87.4 61-133 Ethylbenzene 4.37 0.0250 5.00 Toluene 4.43 0.0250 5.00 ND 88.6 61-130 4.41 ND 88.3 63-131 5.00 0.0250 o-Xylene p,m-Xylene 8.94 0.0500 10.0 ND 89.4 63-131 13.4 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.57 8.00 Matrix Spike Dup (2341068-MSD1) Source: E310074-02 Prepared: 10/12/23 Analyzed: 10/12/23 4.46 0.0250 5.00 ND 89.1 54-133 0.784 20 61-133 0.970 4.41 0.0250 5.00 ND 88.3 20 Ethylbenzene Toluene 4 46 0.0250 5.00 ND 89.2 61-130 0.636 20 4.46 5.00 ND 89.2 63-131 1.09 20 o-Xylene 0.0250 0.933 9.03 10.0 ND 90.3 63-131 20

0.0500

0.0250

15.0

8.00

ND

89.9

95.6

63-131

70-130

0.983

20

13.5

7.64



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•				1/3/2024 11:06:06AM
	Noi	nhalogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2341068-BLK1)							Prepared: 1	0/12/23	Analyzed: 10/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			
LCS (2341068-BS2)							Prepared: 1	0/12/23	Analyzed: 10/12/23
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			
Matrix Spike (2341068-MS2)				Source:	E310074-	02	Prepared: 1	0/12/23	Analyzed: 10/12/23
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
Matrix Spike Dup (2341068-MSD2)				Source:	E310074-	02	Prepared: 1	0/12/23	Analyzed: 10/12/23
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	1.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	ROSS DRAW UNIT #011 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno					1/3/2024 11:06:06AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341066-BLK1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			
LCS (2341066-BS1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	209	25.0	250		83.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			
Matrix Spike (2341066-MS1)				Source:	E310070-	04	Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.4	38-132			
Surrogate: n-Nonane	37.7		50.0		75.5	50-200			
Matrix Spike Dup (2341066-MSD1)				Source:	E310070-	04	Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	206	25.0	250	ND	82.3	38-132	2.54	20	
Surrogate: n-Nonane	36.3		50.0		72.5	50-200			

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		OSS DRAW U 1058-0007	JNIT #011				Reported:		
Carlsbad NM, 88220		Project Number: Project Manager:		Gilbert Moreno			1/3/2024 11:06:06AM				
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2341076-BLK1)							Prepared:	10/12/23	Analyzed: 10/12/23		
Chloride	ND	20.0									
LCS (2341076-BS1)							Prepared:	10/12/23	Analyzed: 10/12/23		
Chloride	246	20.0	250		98.4	90-110					
Matrix Spike (2341076-MS1)				Source:	E310065-2	1	Prepared:	10/12/23	Analyzed: 10/12/23		
Chloride	249	20.0	250	ND	99.4	80-120					
Matrix Spike Dup (2341076-MSD1)				Source:	E310065-2	1	Prepared:	10/12/23	Analyzed: 10/12/23		
Chloride	252	20.0	250	ND	101	80-120	1.37	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.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/03/24 11:06

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

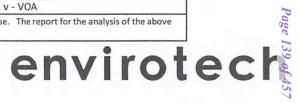
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



_	Received
	by:
	OCD:
	3/14,
	/2024
	5:49:54
	AM

Client: V	WPX Energy Permian, LLC. Brushy Gathering Facility Attention: Jim Raley									La	ab Us	se Or	ly				T/	AT		EPA P	rogram
Project: Brushy Gathering Facility Project Manager: Gilbert Moreno					Atte	ention: Jim Raley			WO#			Job				2D	3D	Stan	dard	CWA	SDWA
					(415 (A) (A) (A)	lress: 5315 Buena Vista Dr.		IE:	3100	573	3	DIC	X58	.000	1			5 da	y TAT		100
	: 13000 W				City	, State, Zip: Carlsbad, NM, 882	20			Uc - Uc		Analy	sis a	nd Metho	od						RCRA
	te, Zip_Oo		79765		Pho	ne: 575-885-7502															
	332-541-7				Ema	ail: jim.raley@dvn.com			GRO/DRO/ORO by 8015											State	
Email: D	evon-tear	n@etech	nenv.com	1	WO	: 21153712	- 70		ρģ									N	M CO	UT AZ	TX
					Inci	dent ID: NHMP1412241998,			ORO												
					nAE	31712951426, nAB1728553778,			RO/	11	0		0.0		Σ		_				
Collecte	d by: Edyt	e Konan			nAF	1728551205 nAPP220072875	5	1	0/0	, 8021	826	601	e 30				¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GR	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	į
10:00	10.6.23	S	1			SW01	1	0-2'							х						
10:10	10.6.23	S	1			SW02	2	0-2'							х		П				
10:20	10.6.23	S	1			SW03	3	0-2'							х						
10:30	10.6.23	S	1			SW04	4	0-4'							х		П				
10:40	10.6.23	S	1			SW05	5	0-4'							х		П				
10:50	10.6.23	S	1			SW06	10	0-4'							х		П				11-11-11-11-1
11:00	10.6.23	S	1		190	SW07	7	0-2'							х						
11:10	10.6.23	S	1			SW08	8	0-4'							х						
11:20	10.6.23	S	1		 	SW09	9	0-4'							х				-		
11:30	10.6.23	S	1			SW10	10	0-4'							х						
Addition	nal Instruc	tions:					AUTOMOS RESON														
				nticity of this sample.		that tampering with or intentionally mislal	elling the sam	ple loca	ition,				170	12.50						they are sam sequent days.	50
	ed by: (Sign		Date		regar action.	Received by: (Signature)	Date		Time							ah 11	se Or	alve			
	- typ	_	20	110123 12	120	Middle Cente	1010	27	10	121	0	Rece	eive	d on ice:		V/ N		lly .			
Michille Genzis 101123 1700 checken Misse						Date 10 · 11 ·	13	Time	23	0	T1			<u>T2</u>			<u>T</u> :	3			
Relinquish	ed by: (Sign:	1000 miles	50 10		330	Received by (Signature)	10-12-23 8:25 AVG Temp °C_4														
Sample Ma	trix: S - Soil, S		DV II	Aqueous, O - Other		1.	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
					d unless oth	er arrangements are made. Hazardou													for the ar	nalysis of th	ne above
						ith this COC. The liability of the laborat											=			,	





Project Information

Chain of Custody

Page1 of1	Received by OCD: 3/14/2024 5:49:54 AM
am	0
am WA	CD:
CRA	3/14
	1/20
	24
	5:4
	9:54
	AM

HOS	SD	raw	unit	#01	1																		
Client: W	/PX Energ	y Permia	n, LLC.			Bill To					Lal	b Us	e On	ly				TA	T		EPA Pr	ogram	
Project:	Brushy Ga	thering I	acility	4	Atte	ention: Jim Raley				WO#				Vumb		1D	2D	3D	Sta	ndard	CWA	SDWA	
Commence of the same of the same of the	Manager:	the Contract of the Contract o			Add	Iress: 5315 Buena Vista Dr.			E3	100	573	5	DIC	58	1000				50	ay TAT			
	13000 W				THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	, State, Zip: Carlsbad, NM,	88220					1	Analy	sis an	d Metho	d						RCRA	
	te, Zip_Od		79765		Pho	one: 575-885-7502				10										New York			
D. Harriston and Communication	32-541-7	THE RESERVE AND DESCRIPTION OF THE PARTY NAMED IN			Ema	ail: jim.raley@dvn.com			2200	801			lane.								State		
Email: D	evon-tear	n@etech	env.com			: 21153712				yd C			- 0							NM CO	UT AZ	TX	
					Inci	dent ID: NHMP1412241998,				TPH GRO/DRO/ORO by 8015													
Callacta	d by Calut	o Vonan				31712951426, nAB1728553				DRO	120	8260	10	0.00	1.5	SZ		X					
	d by: Edyt	e Konan			_ l_lnAF	31728551205 nAPP220072	8755	Lab	Depth(ft.)	RO/	BTEX by 8023	ry 82	Metals 6010	Chloride 300.0		2				×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			N	Lab	epth	PHG	TEX	VOC by	letal	hlori		BGDOC		GDOC			Remarks		THE ST
							- 1	· ·	0	F	B	>	2	Ü		m		9					
10:00	10.6.23	S	1			SW01			0-2'							X		17.10		Corre	cted	non	ort
																-				UIL	uu	PY	
10:10	10.6.23	S	1			SW02		2	0-2'							X				nomo	to	matc	h
10.20	10 5 22	-				CUION		Wilderson Street															
10:20	10.6.23	S	1			SW03		3	0-2"							X				projec	+ nar	neon	
10:30	10.6.23	S	1			SW04		11	0-4'	118							1112		NAME OF TAXABLE PARTY.				
10.50	10.0.25	3	1			3004		4	U-4							X				Same	le C	ontair	6/5
10:40	10.6.23	S	1			SW05			0-4'							\ v							
10.40	10.0.23	,	-			34403		5	0-4							X				10.12.	23	cm	
10:50	10.6.23	S	1			SW06		1	0-4					50		x							
		and that					-	0								^				respondingly.			
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11:10	10.6.23	S	1			SW08		8	0-4							x							
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11:20	10.6.23	S	1			SW09		9	0-4							x							
The state of the s																-							
11:30	10.6.23	S	1			SW10		10	0-4'							x							
Addition	nal Instru	ctions																					
Addition	iai ilistrui	ctions.																					
I, (field sam	pler), attest t	o the validity	and authent	ticity of this sa	mple. I am aware	that tampering with or intentionally	mislabelling	g the same	ole loca	tion.	-		Sample	s requir	ing thermal	preserv	ation mi	ust be re	celved	on ice the day	they are samp	oled or	
A STATE OF THE PARTY.					ds for legal action.								receive	d packe	d in ice at ar	avg te	mp abov	e O but	less th	n 6 °C on subs	equent days.		
Relinquish	ed by: (Sign	Ature)	Date		Time	Received by: (Signature)	/ Da	ite		Time	2.		and the same			L	ab Us	e On	Iv		W 70.20		
Section.	- Lyff	2	roi	10123	12120	Middle Cun	le 1	1010.	27	10	120)	Rece	eived	on ice:		7/ N						
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						her arrangements are made. Haz														t for the an	alysis of the	e above	
1	- P-11-				1 1 1				1				NAME OF TAXABLE			- British	and considerable	N. 1 1000	September 1	STATE OF STREET	THE PERSON NAMED IN	The state of the s	



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Printed: 10/12/2023 12:15:29PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

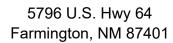
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/12/23 08	8:25	Work Order ID	D: E310073
Phone:	(539) 573-4018	Date Logged In:	10/11/23 15	5:30	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/17/23 13	7:00 (3 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		No			
	e number of samples per sampling site location mat	ch the COC	Yes			
3. Were samples dropped off by client or carrier?			Yes	Carrier: C	`ourier	
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?			Yes	currer. <u>c</u>	<u>Journer</u>	
	l samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.				<u>Comm</u>	ents/Resolution
	urn Around Time (TAT)				D	-1
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project name on samp	
Sample C					match the project nan	ne on COC. Client
	ample cooler received?		Yes		asked to change the p	roject name on the
8. If yes, v	was cooler received in good condition?		Yes		COC.	•
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
		temperature. 4 t	<u>~</u>			
Sample C	ueous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers')	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab		icis conceteu.	103			
	field sample labels filled out with the minimum info	rmation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample P	<u>reservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	mple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
	se Sample Matrix					
26. Does t	he sample have more than one phase, i.e., multipha	se?	No			
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA			
Subcontra	act Laboratory					
	mples required to get sent to a subcontract laborato	ry?	No			
	subcontract laboratory specified by the client and it	-		Subcontract Lab	o: NA	
	struction					
<u>Cheme in</u>	<u>struction</u>					

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno





Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310125

Job Number: 01058-0007

Received: 10/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/23/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/23/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310125

Date Received: 10/19/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/19/2023 8:15:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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Alexa Michaels

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Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1	
Cover Page	2	
Table of Contents		
Sample Summary		
Sample Data		
SW11 0-4'	5	
SW12 0-4'	6	
SW13 0-4'	7	
SW14 0-4'	8	
QC Summary Data	9	
QC - Volatile Organics by EPA 8021B	9	
QC - Nonhalogenated Organics by EPA 8015D - GRO	10	
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11	
QC - Anions by EPA 300.0/9056A	12	
Definitions and Notes		
Chain of Custody etc.		

Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/23 11:48

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW11 0-4'	E310125-01A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
SW12 0-4'	E310125-02A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
SW13 0-4'	E310125-03A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
SW14 0-4'	E310125-04A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW11 0-4' E310125-01

		E310123-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2342062
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Coluene	ND	0.0250	1	10/19/23	10/19/23	
-Xylene	ND	0.0250	1	10/19/23	10/19/23	
,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	10/19/23	10/19/23	
Jonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2342062
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2342064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		88.7 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2342075
Chloride	ND	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW12 0-4' E310125-02

		E310123-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342062
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
o-Xylene	ND	0.0250	1	10/19/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342062
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		88.1 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2342075
Chloride	86.2	20.0	1	10/19/23	10/19/23	·



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW13 0-4'

		E310125-03						
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342062		
Benzene	ND	0.0250	1	10/19/23	10/19/23			
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23			
Toluene	ND	0.0250	1	10/19/23	10/19/23			
o-Xylene	ND	0.0250	1	10/19/23	10/19/23			
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23			
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23			
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/19/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342062		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	10/19/23	10/19/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2342064		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23			
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23			
Surrogate: n-Nonane		86.5 %	50-200	10/19/23	10/20/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2342075		
Chloride	104	20.0	1	10/19/23	10/19/23			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW14 0-4'

		E310125-04						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2342062		
Benzene	ND	0.0250	1	10/19/23	10/19/23			
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23			
Toluene	ND	0.0250	1	10/19/23	10/19/23			
o-Xylene	ND	0.0250	1	10/19/23	10/19/23			
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23			
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23			
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	10/19/23	10/19/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2342062		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	10/19/23	10/19/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2342064		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23			
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23			
Surrogate: n-Nonane		85.7 %	50-200	10/19/23	10/20/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2342075		
Chloride	90.3	20.0	1	10/19/23	10/19/23			



o-Xylene

p,m-Xylene

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/23/2023 11:48:27AM **Volatile Organics by EPA 8021B** Analyst: RKS RPD Reporting Spike Source Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2342062-BLK1) Prepared: 10/19/23 Analyzed: 10/19/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.52 8.00 94.0 70-130 LCS (2342062-BS1) Prepared: 10/19/23 Analyzed: 10/19/23 4.45 5.00 89.1 70-130 0.0250 Benzene Ethylbenzene 4.54 0.0250 5.00 90.7 70-130 70-130 4.54 0.0250 5.00 90.8 Toluene 4.58 91.5 70-130 o-Xylene 0.0250 5.00 9.28 10.0 92.8 70-130 0.0500 p.m-Xvlene 92.4 70-130 13.9 0.0250 15.0 Total Xylenes 8.00 93.9 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.51 Source: E310122-02 Matrix Spike (2342062-MS1) Prepared: 10/19/23 Analyzed: 10/19/23 Benzene 4.74 0.0250 5.00 ND 94.8 54-133 ND 96.7 61-133 Ethylbenzene 4.84 0.0250 5.00 Toluene 4.84 0.0250 5.00 ND 96.9 61-130 4.86 5.00 ND 97.3 63-131

Total Xylenes	14.7	0.0250	15.0	ND	98.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			
Matrix Spike Dup (2342062-MSD1)				Source:	: E310122-	02	Prepared: 1	0/19/23 Analyzed: 10/19/2	3
Benzene	4.66	0.0250	5.00	ND	93.2	54-133	1.71	20	
Ethylbenzene	4.76	0.0250	5.00	ND	95.2	61-133	1.59	20	
Toluene	4.76	0.0250	5.00	ND	95.1	61-130	1.83	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	1.95	20	
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131	1.65	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131	1.75	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

10.0

ND

98.6

63-131

0.0250

0.0500

9.86

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	,			10	/23/2023 11:48:27A
	Nor	nhalogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2342062-BLK1)							Prepared: 1	0/19/23 Ana	alyzed: 10/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.4	70-130			
LCS (2342062-BS2)							Prepared: 1	0/19/23 Ana	alyzed: 10/19/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			
Matrix Spike (2342062-MS2)				Source:	E310122-	02	Prepared: 1	0/19/23 Ana	alyzed: 10/19/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			
Matrix Spike Dup (2342062-MSD2)				Source:	E310122-	02	Prepared: 1	0/19/23 Ana	alyzed: 10/19/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130	8.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	_
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno					10/23/2023 11:48:2/A
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342064-BLK1)							Prepared: 1	0/19/23	Analyzed: 10/19/23
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.9		50.0		91.7	50-200			
CS (2342064-BS1)							Prepared: 1	0/19/23	Analyzed: 10/19/23
riesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
urrogate: n-Nonane	46.5		50.0		93.0	50-200			
Matrix Spike (2342064-MS1)				Source:	E310122-0	04	Prepared: 1	0/19/23	Analyzed: 10/19/23
tiesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
urrogate: n-Nonane	50.4		50.0		101	50-200			
Matrix Spike Dup (2342064-MSD1)				Source:	E310122-	04	Prepared: 1	0/19/23	Analyzed: 10/19/23
tiesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	2.44	20	
urrogate: n-Nonane	49.3		50.0		98.6	50-200			



WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	: 0	OSS DRAW 1058-0007 Gilbert Moreno				10	Reported: 0/23/2023 11:48:27AM
		Anions	by EPA	300.0/9056	A				Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2342075-BLK1)							Prepared: 1	0/19/23 An	alyzed: 10/19/23
Chloride	ND	20.0							
LCS (2342075-BS1)							Prepared: 1	0/19/23 An	alyzed: 10/19/23

Chloride	256	20.0	250		103	90-110			
Matrix Spike (2342075-MS1)				Source:	E310123-0	5	Prepared:	10/19/23	Analyzed: 10/19/23
Chloride	1930	20.0	250	1770	64.8	80-120			M4
Matrix Spike Dup (2342075-MSD1)				Source:	E310123-0	5	Prepared:	10/19/23	Analyzed: 10/19/23
Matrix Spike Dup (2342075-MSD1) Chloride	1900	20.0	250	Source: 1770	E310123-0 52.3	80-120	Prepared: 1.64	20	Analyzed: 10/19/23 M4
	1900	20.0	250			-			

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.



Definitions and Notes

ſ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/23 11:48

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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	/PX Energ				Bill To Lab Use Only		TAT			EPA Program											
	ROSS DRA				Attention: Jim Raley		Lab	WO	# _		Job				2D	3D	Sta	andard	CV	VA	SDWA
	/lanager:				Address: 5315 Buena Vista Dr.		IE3	310	12:	5	OIC	158	-0007				50	day TAT			
Address:	13000 W	County	Rd 100		City, State, Zip: Carlsbad, NM, 88	220		F 73.5			Analy	sis a	nd Metho	d							RCRA
	te, Zip_Od		79765		Phone: 575-885-7502									T	T						
	32-541-7				Email: jim.raley@dvn.com			ρ											Sta	te	
Email: D	evon-tear	n@etech	env.com		WO: 21153712			ORG S										NM CC	UT	AZ	TX
					Incident ID: mNHMP1412241998, nAB17:	12951426,		TPH GRO/DRO/ORO by 3015	=			0.0		ΣZ							
Collected	d by: Edyt	e Konan			nAB1728553778, nAB1728551205, nAPP2200		1	0/0	805	8260	2010	300		1		¥		×			
Time	Date	Matrix	No. of	Sample ID		Lab	Depth(ft.)	GR	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		000		2			D	6-	
Sampled	Sampled	IVIALITA	Containers	Sample 1D		Number	Dep	TPH (BTE	00	Met	당		ВСБОС	208	GDOC			Rem	arks	
12:40	10.16.23	S	1		SW11		0-4	,										T			
12.40	10.10.23	د	1		3W11		0-4							X							
12:50	10.16.23	S	1		SW12	2	0-4							١							
12.50	10.10.23	3	1		30012	1	0-4							Х							
13:00	10.16.23	S	1		SW13	7	0-4														
15.00	10.10.23	3	1		3W13	3	0-4							Х							
13:10	10.16.23	S	1		SW14	4	0-4							T							
13.10	10.10.23	3	1		30014	7	0-4							Х				1			
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Addition	al Instruc	tions:	5	***************************************				1						-							
I, (field samp	oler), attest to	the validity	and authen	ticity of this sample.	I am aware that tampering with or intentionally mis	labelling the sam	ple lo	cation,			Sample	es requ	iring thermal	preserv	ation m	nust be n	eceived	d on ice the r	lay they a	are samp	led or
date or time	of collection	is considere	d fraud and	may be grounds for	egal action. Sampled by: GM						receive	ed pack	ed in ice at ar	n avg te	mp abo	ve 0 but	less th	an 6 °C on st	ubsequen	it days.	
Relinquish	d by: (Sign	ature)	Date	18123 12	Received by (Sgn) ure	Date	100	Time	- 1/	\sim				L	ab U	se On	ily				
14	D (1	10	18/23 12	10 Camella aux	V1017	22		210		Rece	eived	on ice:	1	7/1	V					
Refinquish	ed by Sign	ature)	Date	10 2 Time	Received by: (Signature)	Date	-	Time						٧	,						
MAN	20(1)m	Law	1	1102-11	5 chow myso	10.18:	23	18	m		T1			T2				T3			
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he	the ,	m 650	10	18.23 2	400 Couth Mar	- 10.19.	23	18.	15		AVG	Ten	np°C	+							
				Aqueous, O - Other	me mine i'm	Containe						1000000	Marie Control	hera	rlace	v - VO	10		1 17/2		
					unless other arrangements are made. Hazaro													port for th	0.000	cic of	the share
					poratory with this COC. The liability of the labo									chent	exper	ise. I	ne rej	port for th	eanaly	313 01 1	ne above



ent expense. The report for the analysis of the above

Printed: 10/19/2023 12:05:17PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/19/23	08:15		Work Order ID:	E310125
Phone:	(539) 573-4018	Date Logged In:	10/18/23	16:48		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/25/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comment	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C			Van				
	sample cooler received? was cooler received in good condition?		Yes				
•	•		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 4 t	<u>~</u>				
Sample C			NT.				
	queous VOC samples present?		No NA				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?						
	trip blank (TB) included for VOC analyses?	n	NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	ormation.	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	yzed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	m19	No				
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab	N A		
		i so who.	1421	Subcontract Lab	, INA		
Client In	<u>astruction</u>						

Date

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310293

Job Number: 01058-0007

Received: 10/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/6/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/6/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310293

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW15 0-4'	5
SW16 0-4'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

_				
ſ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:43

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW15 0-4'	E310293-01A Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
SW16 0-4'	E310293-02A Soil	10/27/23	10/30/23	Glass Jar, 2 oz.



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/6/2023 10:43:03AM

SW15 0-4' E310293-01

		E310293-01					
		Reporting			_		
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344030
Benzene	ND	0.0250	1	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/02/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/02/23	11/02/23	
Surrogate: n-Nonane		85.7 %	50-200		11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2344059
Chloride	39.3	20.0	1	1	11/02/23	11/02/23	



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/6/2023 10:43:03AM

SW16 0-4' E310293-02

		2010270 02				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
Surrogate: n-Nonane		90.5 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2344059
Chloride	ND	20.0	1	11/02/23	11/02/23	

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:43:03AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344030-BLK1) Prepared: 10/31/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.580 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 0.500 92.2 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.547 LCS (2344030-BS1) Prepared: 10/31/23 Analyzed: 11/02/23 2.70 0.0250 2.50 108 70-130 Benzene 2.50 106 70-130 2.64 Ethylbenzene 0.0250 2.61 0.0250 2.50 105 70-130 70-130 2.58 0.0250 2.50 103 o-Xylene 5.20 5.00 104 70-130 p,m-Xylene 0.0500 7.77 0.0250 7.50 104 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.573 0.500 115 70-130 0.500 96.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.481 70-130 Surrogate: Toluene-d8 0.550 0.500 Matrix Spike (2344030-MS1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23 48-131 2.77 0.0250 2.50 ND 111 45-135 Ethylbenzene 2.75 0.0250 2.50 ND 110 ND 48-130 Toluene 2.69 0.0250 2.50 108 2.68 0.0250 2.50 ND 107 43-135 o-Xylene 5.00 ND 107 43-135 p,m-Xylene 5.36 0.0500 Total Xylenes 8.04 0.0250 7.50 ND 107 43-135 Surrogate: Bromofluorobenzene 0.595 0.500 119 70-130 0.500 99.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.499 0.500 70-130 0.557 Surrogate: Toluene-d8 Matrix Spike Dup (2344030-MSD1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23 2.68 0.0250 2.50 ND 107 48-131 3.04 23 2.68 0.0250 2.50 ND 45-135 2.56 27 Ethylbenzene ND 48-130 1.74 24 2.64 2.50 106 Toluene 0.0250 o-Xylene 2.61 0.0250 2.50 ND 104 43-135 2.59 27 5.23 5.00 ND 105 43-135 27 0.0500 2.51 p,m-Xylene 27 7.84 0.0250 7.50 ND 105 43-135 2.54 Total Xylenes



0.500

0.500

0.500

118

96.1

70-130

70-130

70-130

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

0.589

0.481

0.550

Surrogate: Toluene-d8

QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:43:03AM

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		058-0007 lbert Moreno					11/6/2023 10:43:03A
	Non	nhalogenated C	Organics	by EPA 801	5D - GF	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 10	0/31/23 A	nalyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 10	0/31/23 A	nalyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source: E	310292-0	1	Prepared: 10	0/31/23 A	analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD2)				Source: E	2310292-0)1	Prepared: 10	0/31/23 A	analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	
Surrogate: Bromofluorobenzene	0.576		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			

0.500

111

70-130

0.556



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:43:03AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/6/2023 10:43:03AN
	Nonhal	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344070-BLK1)							Prepared: 1	1/02/23 A	nalyzed: 11/02/23
riesel Range Organics (C10-C28)	ND	25.0							
ril Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.5		50.0		90.9	50-200			
CS (2344070-BS1)							Prepared: 1	1/02/23 A	nalyzed: 11/02/23
iesel Range Organics (C10-C28)	209	25.0	250		83.6	38-132			
urrogate: n-Nonane	40.0		50.0		80.0	50-200			
1atrix Spike (2344070-MS1)				Source:	E310300-	08	Prepared: 1	1/02/23 A	nalyzed: 11/02/23
riesel Range Organics (C10-C28)	225	25.0	250	ND	89.9	38-132			
urrogate: n-Nonane	41.7		50.0		83.4	50-200			
Matrix Spike Dup (2344070-MSD1)				Source:	E310300-	08	Prepared: 1	1/02/23 A	nalyzed: 11/02/23
riesel Range Organics (C10-C28)	219	25.0	250	ND	87.6	38-132	2.55	20	
urrogate: n-Nonane	41.8		50.0		83.5	50-200			



WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		OSS DRAW U 1058-0007	JNIT #011				Reported:
Carlsbad NM, 88220		Project Manager:		ilbert Moreno					11/6/2023 10:43:03AM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344059-BLK1)							Prepared:	11/02/23	Analyzed: 11/02/23
Chloride	ND	20.0							
LCS (2344059-BS1)							Prepared:	11/02/23	Analyzed: 11/02/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2344059-MS1)				Source:	E311014-0)4	Prepared:	11/02/23	Analyzed: 11/02/23
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2344059-MSD1)				Source:	E311014-0)4	Prepared:	11/02/23	Analyzed: 11/02/23
Chloride	263	20.0	250	ND	105	80-120	3.32	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.



Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Gent: W						Bill To			Lab Use Only TAT EPA P				rogram									
Poject: F						ention: Jim Raley		Lab	WO	ļ	_	Job Number 1D 2D 3D Stan			andard	CWA	SDWA					
	lanager: (Address: 5315 Buena Vista Dr.			E310293			01028-0091		6] [5 (TAT yes			
Address:					Cit	y, State, Zip: Carlsbad, NM, 8822	0							nd Me								RCRA
City, Stat			79765		Ph	one: 575-885-7502		1	Π		П	Ĩ			Т				Γ	1 .		
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ime Sampled	Deta Sampled	Matrix	No. of Contrainers	Sample II	D		Lab Number	Specific 1	TPH GRO/DRO/ORO by 8015	STEX by 8021	VOC 5y 8260	Metals 6010	Orloride			BGDOC		2000			Remarks	
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Sample Mat	tx: 5 - Solt. Sc	l - Solid, Se -	Studge, A -	Aqueous, O -	Other	_1	Containe	r Tyr	e: z -	glass	s, p -						ass. \	/ - VC	A			
					ported unless of	her arrangements are made. Hazardo	us samples v	vill be	returr	red to	clien	t or dis	spose	d of at						port for the	analysis of	the above



Printed: 10/30/2023 11:00:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23	08:30		Work Order ID:	E310293
Phone:	(539) 573-4018	Date Logged In:	10/30/23	10:57		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	11/03/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			<u>Comment</u>	s/Resolution
Sample T	Furn Around Time (TAT)	· ·				·	
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4-0	<u>c</u>				
	Container queous VOC samples present?		Ma				
	OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	** *	ners conceted:	103				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
_	<u>Preservation</u>						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA		
Client In	nstruction_						

Date

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310292

Job Number: 01058-0007

Received: 10/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/6/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/6/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310292

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW17 0-4'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

_				
Γ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
ı	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW17 0-4'	E310292-01A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:41:13AM

SW17 0-4' E310292-01

		E0102/2 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dii	ution	Frepared	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg			Analyst:	RKS		Batch: 2344030
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
o-Xylene	ND	0.0250		1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0		1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/01/23	11/02/23	
Surrogate: n-Nonane		87.4 %	50-200		11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2344059
Chloride	52.0	20.0	<u> </u>	1	11/02/23	11/02/23	



WPX Energy - Carlsbad
Project Name: ROSS DRAW UNIT #011
Salf Buena Vista Dr
Project Number: 01058-0007
Carlsbad NM, 88220
Project Manager: Gilbert Moreno

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Result
Result
Result
Result
Result
Result
Result
Rec
Limit
Result
Rec
Limit
Reported:

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 1	0/31/23 Analy	zed: 11/02/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS1)							Prepared: 1	0/31/23 Analy	zed: 11/02/23
Benzene	2.70	0.0250	2.50		108	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.61	0.0250	2.50		105	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.77	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.573		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike (2344030-MS1)				Source:	E310292-0)1	Prepared: 1	0/31/23 Analy	zed: 11/02/23
Benzene	2.77	0.0250	2.50	ND	111	48-131			
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135			
Toluene	2.69	0.0250	2.50	ND	108	48-130			
o-Xylene	2.68	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.04	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.595		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD1)				Source:	E310292-0	01	Prepared: 10	0/31/23 Analy	zed: 11/02/23
Benzene	2.68	0.0250	2.50	ND	107	48-131	3.04	23	
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	2.56	27	
Toluene	2.64	0.0250	2.50	ND	106	48-130	1.74	24	
o-Xylene	2.61	0.0250	2.50	ND	104	43-135	2.59	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	2.51	27	
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135	2.54	27	
Surrogate: Bromofluorobenzene	0.589		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
surrogate. 10tuene-uo	0.330		0.200		110	/ 0-150			



Matrix Spike Dup (2344030-MSD2)

QC Summary Data

WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #011Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno11/6/2023 10:41:13AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				11/6	5/2023 10:41:13AN
	Non	halogenated	Organics l	by EPA 801	15D - G1	RO		F	Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 1	0/31/23 Anal	yzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 1	0/31/23 Anal	yzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source:	E310292-	01	Prepared: 1	0/31/23 Anal	yzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			

Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20
Surrogate: Bromofluorobenzene	0.576		0.500		115	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130		
Surrogate: Toluene-d8	0.556		0.500		111	70-130		

Source: E310292-01

Prepared: 10/31/23 Analyzed: 11/02/23

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:41:13AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•			1	1/6/2023 10:41:13AN
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344044-BLK1)							Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2344044-BS1)							Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
Matrix Spike (2344044-MS1)				Source:	E310296-	01	Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2344044-MSD1)				Source:	E310296-	01	Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132	0.813	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr	ROSS DRAW U 01058-0007	JNIT #011			Reported:				
Carlsbad NM, 88220		Project Manager	: (Gilbert Moreno					11/6/2023 10:41:13AM
		Anions	by EPA	300.0/9056	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344059-BLK1)							Prepared: 1	1/02/23 A	Analyzed: 11/02/23
Chloride	ND	20.0							
LCS (2344059-BS1)							Prepared: 1	1/02/23 A	Analyzed: 11/02/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2344059-MS1)				Source:	E311014-0)4	Prepared: 1	1/02/23 A	Analyzed: 11/02/23
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2344059-MSD1)	Source:	E311014-0)4	Prepared: 1	1/02/23 A	Analyzed: 11/02/23			

250

20.0

105

80-120

3.32

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.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Qient: Wi	PX Energy	/ Permiai	n, LLC.			Bill To			Lab U:				Jse Only					T	TAT		EPA P	rogram
	OSS DRA					Attention: Jim Raley	<u> </u>	Lab	WO	*		Job	Num	ber		10	20	3D	St	andard	CWA	SDWA ⁻
Poject M	lanager: (Silbert M	loreno			Address: 5315 Buena Vista Dr.		E	wor S(O	292	Z	1019	758	$\cdot \mathcal{D} \alpha$	27		1		5	day TAT		
	13000 W					City, State, Zip: Carlsbad, NM, 8822	0					Analy	sis a	nd M	ethod	1	`	•				RCRA
🌣 ty, State	e, Zip_Od	lessa,TX,	79765			Phone: 575-885-7502		 	Т	T	T							Т	T	i		
🌉 one: 8:	32-541-7	719				Email: jim.raley@dvn.com		1	2		1						l				State	
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≫ Time %umpled	Date Sampled	Matrix	Sta of Contains	, Sample II	D		Lab Number	Depot (P.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Merals 6010	Chloride			96500		600C			Remarks	
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L (field serre	der), attest t	o the validate	y and auth	enucity of this	sample. I am	aware that tampering with or Intentionally misla	belling the san	nple lo	cation			Sample	es requ	iring th	ermal p	reserv	ation m	ust be r	ecelve	on ice the da	y they are Lar	pied or
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Sample Mat	rtir S - Soil, S	d · Solid, Sg	- Sludge, A	- Aqueous, O	Other		Containe	r Typ	e: g -	glas	s, p -						lass,	v - VC	A		********	•——
Note Sami	des are disc	arded 30 d	law after	recuits are re	corted unde	ks other arrangements are made. Hazardo																-1

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.



envirotech september 180 of 457

Page 181 of 457

Printed: 10/30/2023 10:52:20AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23	08:30		Work Order ID:	E310292
Phone:	(539) 573-4018	Date Logged In:	10/30/23	10:46		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		88	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were al	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
Sample T	i.e, 15 minute hold time, are not included in this disucssic	on.		Г			
	Urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes				
	•		103				
Sample C	cample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
			Yes				
	custody/security seals present?		No				
•	were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers?	•	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field Lab	<u>oel</u>						
20. Were	field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	-			
_	ollectors name?		Yes				
	' <u>reservation</u> the COC or field labels indicate the samples were pr	osomiod9	No				
	ample(s) correctly preserved?	eserveu?	No NA				
	filteration required and/or requested for dissolved m	retals?	No				
	1		110				
	se Sample Matrix	9	3.7				
	the sample have more than one phase, i.e., multiphase		No				
	does the COC specify which phase(s) is to be analy	zeur	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborator	•	No				
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab:	: NA		
Client In	<u>istruction</u>						
							_

Page 12 of 12

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310309

Job Number: 01058-0007

Received: 11/1/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/7/23

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

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/7/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310309

Date Received: 11/1/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW18 0-4'	5
SW19 0-4'	6
SW20 0-4'	7
SW21 0-4	8
QC Summary Data	9
QC - Volatile Organic Compounds by EPA 8260B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	Keporteu:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:10

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW18 0-4'	E310309-01A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW19 0-4'	E310309-02A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW20 0-4'	E310309-03A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW21 0-4	E310309-04A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:10:23PM

SW18 0-4' E310309-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	RKS		Batch: 2344042
Benzene	ND	0.0250	1	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: l	ΚM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/03/23	11/04/23	
Surrogate: n-Nonane		103 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	ВА		Batch: 2344118
Chloride	27.1	20.0	1	1	11/04/23	11/06/23	



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW19 0-4' E310309-02

		E310309-02					
	D 1	Reporting			D 1		N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RI	ζS		Batch: 2344042
Benzene	ND	0.0250	1	l	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	[11/01/23	11/02/23	
Toluene	ND	0.0250	1	l	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	l	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	l	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	l	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.8 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS				Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		99.8 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: Kl	M		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/03/23	11/04/23	
Surrogate: n-Nonane	·	109 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: B	A		Batch: 2344118
Chloride	26.8	20.0	1	1	11/04/23	11/06/23	



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW20 0-4' E310309-03

		E010007 00				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		94.6 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344118
Chloride	162	20.0	1	11/04/23	11/07/23	

WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW21 0-4 E310309-04

		E010007 01				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	nalyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	nalyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		90.7 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: BA		Batch: 2344118
Chloride	ND	400	20	11/04/23	11/07/23	



QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/7/2023 3:10:23PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344042-BLK1) Prepared: 11/01/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.508 0.500 102 70-130 0.500 99.6 70-130 Surrogate: Toluene-d8 0.498 LCS (2344042-BS1) Prepared: 11/01/23 Analyzed: 11/02/23 2.43 0.0250 2.50 97.4 70-130 Benzene 2.42 2.50 70-130 96.8 Ethylbenzene 0.0250 2.35 0.0250 2.50 94.0 70-130 2.38 95.4 70-130 0.0250 2.50 o-Xylene 4.68 5.00 93.7 70-130 p,m-Xylene 0.0500 7.07 0.0250 7.50 94.2 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.509 0.500 102 70-130 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.502 70-130 Surrogate: Toluene-d8 0.495 0.500 Matrix Spike (2344042-MS1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.40 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.39 0.0250 2.50 ND 95.7 ND 92.3 48-130 Toluene 2.31 0.0250 2.50 2.36 0.0250 2.50 ND 94.3 43-135 o-Xylene 4.60 5.00 ND 91.9 43-135 p,m-Xylene 0.0500 Total Xylenes 6.95 0.0250 7.50 ND 92.7 43-135 Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 0.512 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 98.2 70-130 0.491 Surrogate: Toluene-d8

Source: E310305-23

96.7

96.4

93.1

95.4

93.5

94.2

103

102

98.2

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

0.685

0.771

0.885

1.18

1.76

1.56

ND

ND

ND

ND

ND

ND



Prepared: 11/01/23 Analyzed: 11/02/23

23

27

24

27

27

27

Matrix Spike Dup (2344042-MSD1)

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.42

2.33

2.38

4.68

7.06

0.513

0.510

0.491

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

0.502

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported:

5315 Buena Vista Dr		Project Number:	01	058-0007					p
Carlsbad NM, 88220		Project Manager	:: Gi	lbert Moreno				1	1/7/2023 3:10:23PI
	Non	halogenated (Organics	by EPA 801	5D - Gl	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344042-BLK1)							Prepared: 1	1/01/23 Ana	llyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
LCS (2344042-BS2)							Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2344042-MS2)				Source: E	2310305-	23	Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			
Matrix Spike Dup (2344042-MSD2)				Source: E	2310305-	23	Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	3.21	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			

0.500

0.500

70-130

70-130

100

99.9



QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:10:23PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/7/2023 3:10:23PN
	Nonha	logenated Or		Analyst: KM					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344103-BLK1)							Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.3	50-200			
LCS (2344103-BS1)							Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	241	25.0	250		96.4	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			
Matrix Spike (2344103-MS1)				Source:	E311018-0)7	Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			
Matrix Spike Dup (2344103-MSD1)				Source:	E311018-0	07	Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	0.421	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



Chloride

M2, R3

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ROSS DRAW U 01058-0007	JNIT #011				Reported:
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					11/7/2023 3:10:23PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344118-BLK1)							Prepared:	11/04/23	Analyzed: 11/06/23
Chloride	ND	20.0							
LCS (2344118-BS1)							Prepared:	11/04/23	Analyzed: 11/06/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2344118-MS1)				Source:	E310306-2	26	Prepared:	11/04/23	Analyzed: 11/06/23
Chloride	363	200	250	593	NR	80-120			M2
Matrix Spike Dup (2344118-MSD1)				Source:	E310306-2	26	Prepared:	11/04/23	Analyzed: 11/06/23

250

200

67.2

80-120

70.7

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.



Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:10

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: WPX Energy Permian, LLC.

Project Manager: Gilbert Moreno

Address: 13000 W County Rd 100

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Project: ROSS DRAW UNIT #011

Lab WO#

Bill To

Attention: Jim Raley

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.

Address: 5315 Buena Vista Dr.

City, State, Zip: Carlsbad, NM, 88220

EPA Program

SDWA

RCRA

CWA

TAT

Standard

5 day TAT

1D 2D 3D

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Phone: 8	332-541-7	719				Ema	il: jim.raley@dvn.com				by											5	State		
Email: D	evon-tear	n@etech	env.com				5/WO: MM-155117.AL.RN	IM			ORO										NM C	D C	TA	Z TX	T
Collected	d by: Edyt	e Konan				Incid	dent ID: mnhmp1412241998, na 728553778, naB1728551205, napp2	AB1712951		1	TPH GRO/DRO/ORO by 8015	8021	8260	5010	300.0			ΣZ	ì	×	×	T			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II)				Lab Number	Depth(ft.)	TPH GR(8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC	0	2005		Re	emark	S	
10:40	10.30.23	S	1				SW18		1	0-4'								х							
10:50	10.30.23	S	1				SW19		2	0-4								х							
11:00	10.30.23	S	1				SW20		3	0-4'								х							
11:10	10.30.23	S	1				SW21		4	0-4'								х							
																	_								
										_															
							1013112023																		
							=,																		
Addition	al Instruc	tions:		1																					
	oler), attest to						that tampering with or intentionally Sampled by: GM	y mislabelli	ng the sam	ple loc	ation,	1									ed on ice the han 6 °C on s				и
Relinquish	ed by: (Signa ded by: (Signa	ature)	Date ID13	112023	Time Time	(Received by: (Signature) Received by: (Signature)	- 1	ate 036		Time	45)	Rece	eived	on ic	e:	Lab	Use	Only					
Much	ed by: (Signa	Durk	- LO	3123	15'L	15	Received by: (Signature)	- 4	6.31.	13	17	38		<u>T1</u>			_]	Г2			<u>T3</u>		_		
	ed by: (Signa			31.73	00000000		Comments (Signature)	_	1/1/	23	3:	30	,	AVG	Tem	p °C_	4								

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



Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

01058-000

Analysis and Method

Job Number

Lab Use Only

E310309 13-1108-01-29

ent expense. The report for the analysis of the above

Page 14

Page 196 of 457

envirotech Inc.

Printed: 11/1/2023 4:00:08PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/01/23 0	8:30	Work Order ID:	E310309
Phone:	(539) 573-4018	Date Logged In:	10/31/23 1	5:20	Logged In By:	Lacey Rodgers
Email:	devon-team@ensolum.com	Due Date:	11/07/23 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comment</u>	ts/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	, were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
Sample C		- I	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lat	•	nois conceica.	103			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	ormation.	Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample P	<u>reservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
	, does the COC specify which phase(s) is to be analy		NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborato	rv?	No			
	subcontract laboratory specified by the client and i	•		Subcontract Lab: NA		
	• •			Subcontract Eur. 1411		
Chent II	nstruction					

Date

Signature of client authorizing changes to the COC or sample disposition.

Date Reported: 11/6/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310292

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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whinchman@envirotech-inc.com

Raina Schwanz

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW17 0-4'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

_				
Γ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reporteu:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

Client Sample ID	Lab Sample ID Matri	x Sampled	Received	Container
SW17 0-4'	E310292-01A Soil	10/27/23	10/30/23	Glass Jar, 2 oz.



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/6/2023 10:41:13AM

SW17 0-4' E310292-01

		2010272 01				
Analyte	Result	Reporting Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	Butch: 23 11030
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		87.4 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344059
Chloride	52.0	20.0	1	11/02/23	11/02/23	



QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:41:13AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344030-BLK1) Prepared: 10/31/23 Analyzed: 11/02/23 ND 0.0250 ND 0.0250 Ethylbenzene Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.580 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 0.500 92.2 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.547 LCS (2344030-BS1) Prepared: 10/31/23 Analyzed: 11/02/23 2.70 0.0250 2.50 108 70-130 Benzene 2.50 106 70-130 2.64 Ethylbenzene 0.0250 2.61 0.0250 2.50 105 70-130 70-130 2.58 0.0250 2.50 103 o-Xylene 5.20 5.00 104 70-130 p,m-Xylene 0.0500 7.77 0.0250 7.50 104 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.573 0.500 115 70-130 0.500 96.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.481 70-130 Surrogate: Toluene-d8 0.550 0.500 Matrix Spike (2344030-MS1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23 48-131 2.77 0.0250 2.50 ND 111 ND 45-135 Ethylbenzene 2.75 0.0250 2.50 110 108 ND 48-130 Toluene 2.69 0.0250 2.50 2.68 0.0250 2.50 ND 107 43-135 o-Xylene 5.00 ND 107 43-135 p,m-Xylene 5.36 0.0500 8.04 0.0250 7.50 ND 107 43-135

0.500

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

119

99.8

107

106

104

105

105

118

96.1

Source: E310292-01

ND

ND

ND

ND

ND

ND

70-130

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

3.04

2.56

1.74

2.59

2.51

2.54

Prepared: 10/31/23 Analyzed: 11/02/23

23

27

24

27

27

27

Total Xylenes

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2344030-MSD1)

0.595

0.499

0.557

2.68

2.68

2.64

2.61

5.23

7.84

0.589

0.481

0.550

 ${\it Surrogate: Bromofluor obenzene}$

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

QC Summary Data

WPX Energy - Carlsbad Project Name: ROSS DRAW UNIT #011 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:41:13AM

Carlsbad NM, 88220		Project Manager		lbert Moreno				11	/6/2023 10:41:13A
	Non	halogenated	Organics l	by EPA 801	15D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 1	0/31/23 Ana	alyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 1	0/31/23 Ana	alyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source:	E310292-	01	Prepared: 1	0/31/23 Ana	alyzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD2)				Source:	E310292-	01	Prepared: 1	0/31/23 Ana	alyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	

0.500

0.500

0.500

0.576

0.496

0.556

115

99.2

111

70-130

70-130

70-130



QC Summary Data

WPX Energy - Carlsbad Project Name: ROSS DRAW UNIT #011 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:41:13AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/6/2023 10:41:13AN
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344044-BLK1)							Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2344044-BS1)							Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
Matrix Spike (2344044-MS1)				Source:	E310296-0	01	Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2344044-MSD1)				Source:	E310296-	01	Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132	0.813	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name:		ROSS DRAW U 01058-0007	JNIT #011				Reported:		
Carlsbad NM, 88220		Project Number: Project Manager		Gilbert Moreno					11/6/2023 10:41:13AM	
		Anions	by EPA	300.0/9056	4				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits		RPD Limi	t	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2344059-BLK1)							Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	ND	20.0								
LCS (2344059-BS1)							Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	246	20.0	250		98.6	90-110				
Matrix Spike (2344059-MS1)				Source:	E311014-0	4	Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	272	20.0	250	ND	109	80-120				
Matrix Spike Dup (2344059-MSD1)				Source:	E311014-0	4	Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	263	20.0	250	ND	105	80-120	3.32	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.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



int: WPX Energy Permian, LLC.						Bill To		Lab U				se Only				TAT				EPA Program		
Repject: ROSS DRAW UNIT #011						Attention: Jim Raley					Job Number			10	20	3D	Standard		CWA	SDWA.		
goject Manager: Gilbert Moreno					A	Address: 5315 Buena Vista Dr.		Lab WO# E3(0292			01058.0007			ワト				5 (day TAT			
dress: 13000 W County Rd 100						City, State, Zip: Carlsbad, NM, 88220						Analy	sis a	nd Me	thod]		RCRA
🏚 ty, State, Zip_Odessa,TX, 79765					P	Phone: 575-885-7502			П		T	П								<u> </u>		
₱one: 832-541-7719						Email: im.raley@dvn.com			2		1				ı						State	
Shail: Devon-team@etechenv.com				1		WBS/WO: MM-155117.AL.RNM			8						- 1					NM CO	UT AZ	TX
Selected by: Edyte Konan						Incident ID: mnHMP1412241998, nAB1712951426, nAB1728559778, nAB1728551205, nAPP2200728755			/OBO/	1208	95	1 g	3000		₹	ž		¥				
20 Time 25 umpled	Date Sampled	Matrix	Sta of Container	Sample I			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC 5y 8260	Merzes 6010	Chloride			ВББОС		2000			Remarks	
4:20	10.27.23	S	1		 	SW17			,	1	T	<u> </u>			\dashv	×			-			
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Addition	al instru	tions:	1	<u>.L</u>				<u> </u>				1	L		L		l	L	L	<u> </u>	 	
. Mald		مرائدر والم	- and	mercellan and six in	randa 1an -	the structure of the st	helling the	nde le				Camel	es never	iring the	mai o-	*****	those en	m1 h.a.		d on long the de-	1 thur 0 1	
(, (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. Samples requiring thermal preservation must be received on ice the day they are sampled location, received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								briso or														
Relinquished by: (Signature) Date Time				Received by: (Signature) Data		Time		Lab Use Only														
W28123 15			15:00	00 Michelle Gonzales 10-		-23 1500			Received on ice:				⊘ / N				ì					
	Inquished by (Sugnature) Data Time Received by: Kignature) Data Diff ACHELLE THOMAS Data Diff Data Diff Data Diff Data Diff D		10·30	0.23		3 8:30		<u> 11 </u>				T2				Т3						
Relinquish	ed by: (Sign	ature)	De	*	Time	Received by: (Signature)	Date		Time]										
					<u> </u>									np °C_								
Sample Matrix \$ - Soil, \$d - Soild, \$g - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
i Note: Sami	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											spose	d of at	the cl	llent	the shown						

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.



envirotech envirotech en expense. The report for the analysis of the above

Printed: 10/30/2023 10:52:20AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23	08:30	Work Order ID:	E310292
Phone:	(539) 573-4018	Date Logged In:	10/30/23	10:46	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	11/03/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes		Comment	ts/Resolution
Sample T	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
•	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?					
	were custody/security seals intact?		No			
•	,		NA			
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples as minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
	Container .	_	<u> </u>			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lat		nois conceica.	105			
·	field sample labels filled out with the minimum inf	ormation:				
	ample ID?	omiation.	Yes			
	pate/Time Collected?		Yes			
	ollectors name?		Yes			
Sample P	<u>Preservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved r	netals?	No			
Multipha	se Sample Matrix					
	the sample have more than one phase, i.e., multipha	ise?	No			
	, does the COC specify which phase(s) is to be anal		NA			
		,	11/21			
	act Laboratory	9	NI.			
	amples required to get sent to a subcontract laborator subcontract laboratory specified by the client and it	-	No NA	Subcontract Lab: NA		
Client In	<u>nstruction</u>					
						_

Date

APPENDIX F

NMOCD Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Erick Herrera

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Monday, October 2, 2023 2:48 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/5 - 10/6)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com> Sent: Monday, October 2, 2023 12:40 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/5 - 10/6)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between October 5th through October 6th, 2023:

Proposed Date: October 5, 2023, October 6, 2023.

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 11, 2023 5:15 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly. Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 11, 2023 3:33 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 16th through October 20th, 2023:

Proposed Date: October 16, 20023 Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 34

Incident Number: nAPP2326833391

API: 30-015-41578

Proposed Date: October 17, 20023 Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX Federal 21 #031 Incident Number: nAPP2326847671 API: 30-015-41266

Proposed Date: October 17, 20023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: RDX 16 #009

Incident Numbers: nAPP2322658221 & nAPP2317840368

API: 30-015-39752

Proposed Date: October 16, 2023, October 17, 2023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 18, 2023 5:25 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/23-10/27)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, October 18, 2023 3:34 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/23-10/27)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 23rd through October 27th, 2023:

Proposed Date: October 23, 2023, October 24, 2023, October 25, 2023, October 26, 2023, October 27, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Proposed Date: October 23, 2023, October 24, 2023, October 25, 2023, October 26, 2023, October 27, 2023

Proposed Timeframe: 0800 – 1700 hrs. Site Name: Sheep Draw Federal Battery #2 Incident Numbers: NGEG0720040869 API: 30-015-27015

Thank you,

Erick Herrera Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Wednesday, October 25, 2023 2:52 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Hall, Brittany,

EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/30-11/3)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 25, 2023 1:18 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/30-11/3)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon.

WPX anticipates conducting confirmation soil sampling activities at the following site between October 30th through November 3th, 2023:

Proposed Date: October 30, 2023, October 31, 2023, November 1, 2023, November 2, 2023, November 3, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thanks,

Erick Herrera

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, June 7, 2023 10:36 AM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD **Subject:** (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Importance: High

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

RE: Incident # NAPP2200728755, NAB1632647780, NAB1712951426, NAB1728551205, NAB1728553778, NHMP1412241998

Jim,

Your request for an extension to **October 20th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < Jim.Raley@dvn.com> Sent: Wednesday, June 7, 2023 7:08 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com> **Subject:** [EXTERNAL] RE: RDU 11 Extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

BLM required quite an extensive cultural survey on the RDU 11 excavation project. We contracted SWCA to complete this task, they have finished and expect to provide a cultural survey report to BLM by 6/30/2023. BLM will need time to review this report and determine if any additional action is needed or if they will allow excavation with monitoring etc.

So we are not able to move forward with completion of this project until we receive clearance from BLM which I expect will be mid-July. Due to this circumstance, WPX Energy respectfully requests an additional 90 day extension from todays date or timeframe NMOCD deems reasonable.

Erick Herrera

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Sent: Tuesday, October 24, 2023 10:24 AM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD; Wells, Shelly, EMNRD

Subject: (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

No problem, thank you for the update.

Your request for an extension to **January 18th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com> Sent: Friday, October 20, 2023 8:42 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com >; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >;

Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov>

Subject: RE: [EXTERNAL] (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Robert,

To summarize the below extension request. Basically we could not start excavation till BLM gave the OK on a cultural site they were considering possibly significant. When they finally did give the OK to proceed, we started immediately on the excavation, but we just don't have time to finish excavation and reporting by the current deadline of October, 20th. We are in the middle of the excavation and plan on delivering closure as soon as completed. Delay on this project was out of our control.

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the Ross Draw Unit #011 (Site) associated with the following Incident Numbers: NHMP1412241998, nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755.

An extensive cultural survey was required by the Bureau of Land Management (BLM) for the proposed work areas in pasture soil prior to conducting remediation activities to address the Incident Numbers listed above according to a Remediation Work Plan approved on October 19, 2022. SWCA was contracted to conduct the cultural survey, which began on May 2, 2023, the earliest a field crew was available. The cultural survey was completed over the course of approximately 2.5 weeks, and a subsequent report was submitted to the BLM for review on July 28, 2023. On August 14,

2023, SWCA received report edits from the BLM, which were addressed in accordance with subsequent correspondence with the BLM. The revised report was re-submitted to the BLM for review on September 1, 2023, which was determined to require minor edits prior to approval. SWCA submitted the finalized report on September 8, 2023, and on September 21, 2023, the BLM approved the sundry with monitoring stipulations and remediation activities began on October 2, 2023. Excavation activities are still currently on-going and approximately 50% of the proposed excavation area remains.

To provide enough time to complete remediation activities, soil sampling analyses, and prepare a subsequent report, WPX requests a 90-day extension of the deadline for the multiple Incident Numbers at the Site to **January 18, 2023.**

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Sent: Wednesday, June 7, 2023 9:36 AM **To:** Raley, Jim < Jim.Raley@dvn.com>

Cc: Devon-Team < Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>;

Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov >

Subject: [EXTERNAL] (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Importance: High

RE: Incident # NAPP2200728755, NAB1632647780, NAB1712951426, NAB1728551205, NAB1728553778, NHMP1412241998

Jim,

Your request for an extension to **October 20th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>
Sent: Wednesday, June 7, 2023 7:08 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Cc: Devon-Team < <u>Devon-Team@etechenv.com</u>>
Subject: [EXTERNAL] RE: RDU 11 Extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

BLM required quite an extensive cultural survey on the RDU 11 excavation project. We contracted SWCA to complete this task, they have finished and expect to provide a cultural survey report to BLM by 6/30/2023. BLM will need time to review this report and determine if any additional action is needed or if they will allow excavation with monitoring etc.

So we are not able to move forward with completion of this project until we receive clearance from BLM which I expect will be mid-July. Due to this circumstance, WPX Energy respectfully requests an additional 90 day extension from todays date or timeframe NMOCD deems reasonable.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Raley, Jim

Sent: Tuesday, May 2, 2023 8:29 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Subject: RDU 11 Extension

Robert,

We had a tentative due date of (4/21/2023) to complete excavation at the RDU 11 for several incidents. BLM has requested a fairly extensive cultural survey before we can begin excavation. We are currently waiting on the archeological vendor (SWCA) to complete the survey and have BLM review. Due to this delay we would like to request an extension to the due to date to 7/20/2023.

(nAPP2200728755, nAB1632647780, nAB1712951426, nAB1728551205, nAB1728553778, nHMP1412241998)



Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

APPENDIX G

Approved Remediation Work Plan

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

811 S. First St., Artesia, NM 88210

District II

District III

Page 223 of 457

NM OIL CONSERVATION

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

MAY **0 2** 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

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			Rele	ease Notific	catio	n and Co	orrective A	ction				
DABITI	2951	426				OPERA'	ror .	\triangleright] Initia	l Report	П	Final Repo
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Address		ena Vista D				Telephone l	No. 970 589 074					
Facility Nat	me: RDU 1	1				Facility Typ	e: Well Pad					 -
Surface Ow	ner: Fede	ral		Mineral C)wner:	Federal		——Т	API No	. 30- 015-:	24307	
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Poly line						4/20/2017			4/20/20	17 - 13:20	hrs M'	<u>r</u>
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By Whom? I						Date and Hour: 4/21/2017- 9:57hrs MT						
Was a Water	course Read		Yes 🗵	7 No.			olume Impacting t	the Watere	ourse.			
						N/A						
If a Watercon	arse was Im	pacted, Descr	ibe Fully.	* N/A								
They closed	Describe Cause of Problem and Remedial Action Taken.* The spill was caused by human error; the equipment setup was changed and the calibration employees were given a wrong information. They closed a valve that should've been open which resulted in over-pressuring an above ground poly line. Approximately 50 bbls of oil was spilled off location north and west of the location.											
Describe Arc	a Affected	and Cleanup A	Action Tal	cen.*								
The impacted area was mapped with Trimble, 40 bbls of oil was recovered with vac trucks. With BLM's approval, the impacted area off location was excavated to 2' below the surface to address the hydrocarbon concentrations. The impacted area will be sampled to determine if any additional excavation is necessary.												
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
Signature: OIL CONSERVATION DIVISION OIL CONSERVATION DIVISION												
	Approved by Environmental Specialist											
Printed Name	Timed Name. Naroma Biancy											
Title: Enviro	onmental Sp	ecialist				Approval Da	te: 5 8 17	Ex	piration.	Date: N/	1	
E-mail Addre	ess: Karolii	na.blancy@wj	oxenergy.	com		Conditions o	f Approval:			Attached		
Date: 5/2/20	017		Phone	070-580-0743			See) at	tachel	ł			

* Attach Additional Sheets If Necessary

2RP-4197

	Page 224 of 45
Incident ID	nAB1712951426
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.
Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs Planta graphs in all ding data and CIS information	
Topographic/Aerial maps	
I shorstory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 3/14/2024 5:49:54 AM State of New Mexico
Page 4 Oil Conservation Division

Page 225 of 457

Incident ID	hAB1712951426
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Title: Environmental Professional							
Date:							
Telephone: 575-686-7597							
•							
Date:							

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

District III

Page 226 of 457

NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

OCT 05 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in RECEIVED cordance with 19.15.29 NMAC.

Santa Fe, NM 87505

			Rele	ase Notific	ation and Co	rrective A	ction				
NAB17	2855	3778				OPERATOR Initial Report					
Name of Co	mpany: R	KI Explorati	on / WPX	CEnergy 244	Contact: Ka	rolina Blaney					
Address: 53					y .	Telephone No. 970 589 0743					
Facility Nar	ne: RDU I	1 I			Facility Typ	Facility Type: Well Pad					
Surface Ow	ner: Feder	al		Mineral C	wner: Federal		API No	. 30- 015-2	24307		
				LOCA	TION OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County			
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	NATURE OF RELEASE									
Type of Rele	Type of Release: Produced Water Volume of Release: unknown Volume Recovered 0 bbls									
Source of Re						Date and I	Iour of Occurrence	e I	Date and	Hour of Discovery
water transfe	er line					unknown		· ·	2/21/201	7 at 13:10
Was Immed	iate Notice					If YES, To	Whom?			
			No Not R	equired				Bratcher,	BLM Shelly Tucker	
By Whom?	Karolina Bl	aney					Hour 9/21/17 at 16			
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If a Waterco	urse was In	npacted, Desc	ribe Fully.	*						
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N/A										
Describe Ca	use of Prob	iem and Reme	edial Actio	n Taken.*						,
The cause of	f this spill is	s equipment fa	ilure; wea	r and tear of the p	oly line.	The spill occ	curred ~75-100' so	outh of the	RDU I	I well pad and the fluids
migrated for	~600 yards	s southwest of	that locati	ion. The total volu	ame is un	known đue t	o heavy rainfall bu	ut it excee	ds the re	portable quantities.
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Describe Ar	ea Affected	and Cleanup	Action Tai	ken.*						
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delineate the	ansier opera	artent of the	oppeu mm imposte T	he impacted area	Mar com	alad for TOL	L DTEV and Chlor	uic impar	108/17 a	nd on 10/4/17. Further
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Temediation	will be base	ed on the same	pring resur	15.						
I hereby cert	tify that the	information g	iven above	e is true and comi	olete to th	ie best of my	knowledge and u	nderstand	that pur	suant to NMOCD rules and
										leases which may endanger
										lieve the operator of liability
should their	operations !	have failed to	adequately	y investigate and	remediate	e contaminat	ion that pose a thre	eat to gro	and wate	er, surface water, human health
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federal, state	e, or local la	ws and/or reg	ulations.							
	11 2						OIL CONS	SERVA	MOITA	<u>I DIVISION</u>
1	Karalis	na Blane	u							
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		i				Approved by	Environmental Si	necialisa	1/2 1	ge Valente for see
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Title: Enviro	onmental Sp	pecialist				Approval Da	te: 1051 f	/ E	piration	Date: NH
E-mail Add	ress: Karolii	na.blaney@w	pxenergy.c	com		Conditions of	f Approval:			Attached.
	Rea) Attached 200 1/120									
	Date: 10/3/17 18010: 970 369 0743									
Attach Add	litional She	eets If Neces	sarv							

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/5/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 100 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 11/5/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test plts, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

505-476-3465 jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Thursday, October 5, 2017 1:13 PM Sent:

To: stucker@blm.gov; Weaver, Crystal, EMNRD

Cc: Bratcher, Mike, EMNRD; Raley, Jim Subject: WPX/RKI RDU 11 initial spill report

Attachments: RDU 11 C-141 9-21-17.doc; RDU 11 C-141 9-30-17.doc

Good afternoon,

Attached are two C-141 reports for spills that occurred on 9/21 and 9/30 south of the RDU 11 well pad. The footprint of both spills is very similar and the majority is overlapping. Our plan is to remediate and close both spills at the same time however, I understand that you will be assigning two separate incident numbers and I might need to submit separate paperwork.

Please let me know if you have any questions or suggestions.

Thank you,

Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514

Cell: (970) 589-0743

karolina.bianey@wpxenergy.com

From: Blaney, Karolina

Sent: Saturday, September 30, 2017 8:26 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us> Cc: mike.bratcher@state.nm.us; Raley, Jim <James.Raley@wpxenergy.com>

Subject: WPX/RKI RDU 11 initial spill report

Good evening,

WPX had a spill this afternoon, 10/1/17 at 3 pm. The cause of the spill is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred south of the RDU 11 (API # 30-015-24307) well pad and the fluids migrated for ~100 yards southwest of that location. The total volume is unknown due to rainfall, but it exceeds the reportable quantities.

The C-141 report will be submitted within the next 15 days, but please do not he sitate to contact me if you have any questions.

thank you,

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent:Thursday, September 21, 2017 4:45 PMTo:Weaver, Crystal, EMNRD; 'Tucker, Shelly'Cc:Bratcher, Mike, EMNRD; Raley, JimSubject:WPX/RKI RDU 11 - initial notification

Good afternoon,

WPX discovered a spill this afternoon, 9/21/17 at 1:10 pm, located south of the RDU 11 well pad; API # 30-015-24307; O-22-26S-30E. The coordinates of the spill origin are: Lat 32.02114 long -103.86714. The cause is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred ~75-100' south of the RDU 11 well pad and the fluids migrated for ~600 yards southwest of that location. The total volume is unknown at this time but it exceeds the reportable quantities.

The spill report will be submitted in the next 15 days but if you have any questions or concerns, please do not hesitate to contact me.

Thank you,

Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514 Cell: (970) 589-0743

karolina.blaney@wpxenergy.com

Page 231 of 457

Incident ID	nAB1728553778
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This myormation must be provided to the appropriate district office no later man 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 💢 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ▼No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ▼ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.

Com	animation associated with the release have been determined. Refer to 17.13.27.11 (WIAC for specifies.
Ch	naracterization Report Checklist: Each of the following items must be included in the report.
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data
	Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs Photographs including date and GIS information
	Topographic/Aerial maps Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 3/14/2024 5:49:54 AM State of New Mexico
Page 4 Oil Conservation Division

Page 232 of 457

Incident ID	nAB1728553778
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Jim Raley	Title:Environmental Professional						
Signature: fin Rily	Date:4/4/2022						
email: _jim.raley@dvn.com	Telephone: 575-686-7597						
OCD Only							
Received by:	Date:						

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

NM OIL CONSERVATION ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

OCT 0 5 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

1220 S. St. Fran	icis Dr., Santi	a Fc, NM 87503	i	Sa	anta Fe	, NM 875	05	ĸ	ECEIVE!	٠		
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NABI	128551	205				OPERA?	ГOR			al Report	☐ Fin	al Report
			on / WP	X Energy 24/	289	Contact: Ka	rolina Blaney			•	· · · · · · · · · · · · · · · · · · ·	
Address: 53					1	Telephone N	No. 970 589 0743	3				
Facility Na	me: RDU	i 1				Facility Typ	e: Well Pad					
Surface Ow	ner: Feder	al		Mineral C)wner: I	Federal			API No	. 30- 015-2	4307	
				LOC	ላርነጥ	OF RE	LEASE	·				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	West Line	County		
0	22	26S	30E	660	ļ	FSL 1980]	FEL Eddy			
<u>~_</u>	1_ 22	1 200	•							ixigy		
			La	titude: 32.0211		•		MD83				
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Type of Rele		ed Water					Release: unknow			Recovered 0		
Source of Re water transfe						9/30/17	four of Occurrent	ce	9/30/2017	Hour of Dis	covery	
Was Immedi		Given?				If YES, To	Whom?		775072017	ис 15.00	 	
			Yes 🗀] No ☐ Not R	equired		Crystal Weaver &	Michae	el Bratcher,	BLM Shelly	y Tucker	
By Whom? I							lour 9/30/17 at 20					
Was a Water	course Read		Yes ∑] No		If YES, Vo	olume Impacting	the Wat	ercourse.			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	*		<u>. </u>					_	
1		•	-									
N/A												
Describe Cau	use of Probl	em and Remo	dial Actio	n Taken.*								
The cause of	this spill is	equipment fa	ilure; wea	r and tear of the p	oly line.	The spill occ	curred ~75-100' s	outh of	the RDU 11	well pad a	nd the fluid	s
migrated for	~100 yards	southwest of	that locati	on. The total volu	ime is un	known due t	o heavy rainfall b	out it exc	ceeds the rep	portable qua	ntities.	
~450° of the	water transi	fer line has be	en replace	:d.								
Describe Are	a Affected	and Cleanup	Action Ta	ken.*							_	
The water tra	ansfer opera	ations were sto	oped imp	rediately to preven	ni from f	urther release	of the fluids and	I the im	pacted area	was manned	l with a Tri	mble to
delineate the	horizontal	extent of the i		he impacted area								
based on the	sampling re	esuits.	-									
I hereby cert	ify that the	information g	iven abov	e is true and comp	lete to the	he best of my	knowledge and u	understa	ind that purs	suant to NM	OCD rules	and
regulations a	ll operators	are required t	о героп а	nd/or file certain i	release n	otifications a	nd perform corre	ctive act	tions for rele	cases which	may endan	ger
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Signature.		(<u> </u>			Ammanual ha	Enviro Stigned		II ,	,		
Printed Name: Karolina Blaney					Approved by	Enviro nagana (gectana	4/4 3	to Bull the			
					·		Miller	1		4) 1	^	
Title: Enviro	onmental Sp	ecialist				Approval Da	te: [V] [9]	<u>i</u>	Expiration	Date: N	<u> </u>	
E-mail Addr	ess: Karolii	ıa.blaney@wı	xenergy.c	com		Conditions o	f Approyal:		1	Augobad	п.	
Date: 10/5/		Dhone	: 970 589	0743			(99C)	0440	hann	Attached	044	31
Date. 10/3/	4 /	rugu	. 210 207	(//TJ				<u> 1271 12</u>			<u> , , , , , , , , , , , , , , , , , , ,</u>	<u> </u>

^{*} Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/5/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District $\frac{2}{\sqrt{2017}}$ office in $\frac{ARTESIA}{ARTESIA}$ on or before $\frac{11/5/2017}{4}$. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

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for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

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Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent: Thursday, October 5, 2017 1:13 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD

Cc: Bratcher, Mike, EMNRD; Raley, Jim Subject: WPX/RKI RDU 11 initial spill report

Attachments: RDU 11 C-141 9-21-17.doc; RDU 11 C-141 9-30-17.doc

Good afternoon,

Attached are two C-141 reports for spills that occurred on 9/21 and 9/30 south of the RDU 11 well pad. The footprint of both spills is very similar and the majority is overlapping. Our plan is to remediate and close both spills at the same time however, I understand that you will be assigning two separate incident numbers and I might need to submit separate paperwork.

Please let me know if you have any questions or suggestions.

Thank you,

Karolina Blancy

Environmental Specialist WPX Energy Office: (575) 885-7514

Cell: (970) 589-0743

karolina.blaney@wpxenergy.com

From: Blaney, Karolina

Sent: Saturday, September 30, 2017 8:26 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us> **Cc:** mike.bratcher@state.nm.us; Raley, Jim < James.Raley@wpxenergy.com>

Subject: WPX/RKI RDU 11 initial spili report

Good evening,

WPX had a spill this afternoon, 10/1/17 at 3 pm. The cause of the spill is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred south of the RDU 11 (API # 30-015-24307) well pad and the fluids migrated for ~100 yards southwest of that location. The total volume is unknown due to rainfall, but it exceeds the reportable quantities.

The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you,

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent:Saturday, September 30, 2017 8:26 PMTo:stucker@blm.gov; Weaver, Crystal, EMNRD

Cc:Bratcher, Mike, EMNRD; Raley, JimSubject:WPX/RKI RDU 11 initial spill report

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The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you, Karolina Blaney 970 589 0743

Incident ID	nAB1728551205
District RP	
Facility ID	
Application ID	

Page 238 of 457

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 20 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes X No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes X No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes X No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🔀 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🔀 No			
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes □ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 3/14/2024 5:49:54 AM State of New Mexico
Page 4 Oil Conservation Division

Page 239 of 457

	I us a succession of the
Incident ID	nAB1728551205
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occ does not relieve the operator of liability should their operations have the groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Titl: Environmental Professional
Signature: fin Ref.	Date:4/4/2022
email: _ jim.raley@dvn.com	Telephone:575-686-7597
OCD Only	
Received by:	Date:

Page 240 of 457

Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation point Estimated volume of material to be remediated	
Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan tim	
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr deconstruction.	oduction equipment where remediation could cause a major facility
☐ Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptantiability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal, state, or local latest the compliance with any other federal with the compliance with any other federal with the compliance with the comp	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:Jim Raley	Title: Environmental Professional
Signature:	Date:
email:jim.raley@dvn.com	Telephone:575-686-7597
OCD Only	
Received by: Robert Hamlet	Date: 5/4/2022
☐ Approved	Approval
Signature: Robert Hamlet	Date: 5/4/2022

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party: WPX Energy Permian, LLC

Contact Name: Jim Raley

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 246289

Contact Telephone: 575-689-7597

Contact email: jim.raley@dvn.com				Incident	Incident # (assigned by OCD) nAPP2200728755		
Contact mai 88220	ling address:	5315 Buena Vist	a Dr., Carlsbad N	NM			
			Locatio	n of Release S	Source		
Latitude 32.0)224991		(NAD 83 in 6	Longitude decimal degrees to 5 dec	: -103.8669281 cimal places)		
Site Name: R	OSS DRAW	V UNIT #011		Site Type	e: Oil Production Site		
Date Release	Discovered	: January 4 th . 2022	2	API# (if ap	pplicable) 30-015-24307		
Unit Letter	Section	Township	Range	Соц	unty		
О	22	26S	30E	Eddy			
☐ Crude Oi	1	Volume Release Volume Release	all that apply and atta ed (bbls) 20 ed (bbls) 24		Volume Recovered (bbls) 0 Volume Recovered (bbls) 0		
Is the concentration of dissol produced water >10,000 mg/			chloride in the	⊠ Yes □ No			
Condensa	ate	Volume Release	ed (bbls)		Volume Recovered (bbls)		
☐ Natural C	Gas	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide unit		ide units)	Volume/Weight Recovered (provide units)				
pad surface a	and slightly of turated Soil	off-pad. <i>Volume yds^3 x j</i>	percent porosity		from PRV and impact soils in dirt secondary containment ads^3)] = bbls of residual fluid in soil ing fluid		

Received by OCD: 3/14/2024 5 Page 2

5:49:54 AM State of New Mexico
Oil Conservation Division

	Page 242 of 4,	50
Incident ID	nAPP2200728755	
District RP		
Facility ID		
Application ID		

11 1	
Was this a major If Y release as defined by	YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
	e given to the OCD? By whom? To whom? When and by what means (phone, email, etc) ner, Emily Hernandez and Robert Hamlet on 1/4/2022
, .w •	
	Initial Response
The responsible party	must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release	has been stopped.
☐ The impacted area has been	en secured to protect human health and the environment.
Released materials have b	been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and recove	erable materials have been removed and managed appropriately.
If all the actions described abo	ove have <u>not</u> been undertaken, explain why:
Per 19 15 29 8 B (4) NMAC:	the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a na	rrative of actions to date. If remedial efforts have been successfully completed or if the release occurred ea (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	ion given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and ired to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environment.	. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	nd remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 2-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name:James Ral	ley Title: Environmental Specialist
10	
Signature:	Date:1/10/2022
email:jim.raley@dvn.com	n Telephone:575-689-7597
OCD Only	
Received by: Ramona Marc	Date: 1/10/2022

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 71386

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	71386
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
rmarcus	None	1/10/2022

Page 244 of 457

Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🔀 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🔀 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes X No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No	
Did the release impact areas not on an exploration, development, production, or storage site?	¥ Yes ☐ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	ls.	
Data table of soil contaminant concentration data Depth to water determination		
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Topographic/Aerial maps

Photographs including date and GIS information

Laboratory data including chain of custody

Received by OCD: 3/14/2024 5:49:54 AM State of New Mexico
Page 4 Oil Conservation Division

Page 245 of 457

Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occ does not relieve the operator of liability should their operations have the groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Title: Environmental Professional
Signature: fin Rife	Date:4/4/2022
email: jim.raley@dvn.com	Telephone:575-686-7597
OCD Only	
Received by:	Date:

Page 246 of 457

Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of	
Printed Name: Jim Raley	Title: Environmental Professional	
Signature: fix Rdy	Date:	
email:jim.raley@dvn.com	Telephone: 575-686-7597	
OCD Only		
Received by:	Date:	
☐ Approved ☐ Approved with Attached Conditions of	Approval	
Signature:	Date:	



REMEDIATION WORK PLAN AND DEFERRAL REQUEST REPORT

Site Location:

Ross Draw Unit #011 Eddy County, New Mexico Incident Numbers: NHMP1412241998 nAB1632647780 nAB1712951426 nAB1728553778 nAB1728551205 nAPP2200728755

April 1, 2022 Ensolum Project No. 03A1987006

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220 Attention: Jim Raley

Prepared by:

Joseph S. Hernandez Senior Geologist Ashley A. Uger
Ashley Ager, M.S., PG
Program Director, Geologist

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report April 1, 2022



TABLE OF CONTENTS

1.0	I.0 INTRODUCTION1		
	1.1	Site Description & Releases Overview1&2	
	1.2	Site Characterization2&3	
	1.3 F	Project Objective3	
2.0	SOI	L SAMPLING AND INITIAL REMEDIAL ACTIONS	
	2.1	Delineation Activities3&4	
3.0	3.0 SOIL SAMPLING RESULTS		
4.0	DEFF	ERAL REQUEST4&5	
5.0	REME	EDIATION WORK PLAN5&6	
	5.1 I	Proposed Sampling6	
	5.2 I	Proposed Schedule6	
		APPENDICES	
Appe	endix A	A: Figure 1 – Site Map	
		Figure 2A – Delineation Soil Sample Locations (nAP1712951426 and nAPP2200728755)	
		Figure 2B – Delineation Soil Sample Locations (nAB172855377 and nAB1728551205)	
		Figure 3 – Area of Concern Tract (NHMP1412241998)	
		Figure 4 – Proposed Excavation Extent	
Appe	endix E	3: Well Record	
Appe	endix (C: Lithologic Soil Sampling Logs	
Appe	endix [D: Photographic Log	
Appe	endix E	≣: Tables	
Appe	endix F	: Laboratory Analytical Reports & Chain-of-Custody Documentation	

April 1, 2022

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Remediation Work Plan Report (RWP) to document site assessment, soil sampling activities and preliminary corrective actions performed to date by WPX Permian Energy, LLC (WPX) at the Ross Draw Unit #011 (hereinafter referred to as the "Site") in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1 in Appendix A). Based on field observations, field screening activities and review of the laboratory analytical results from delineation soil sampling activities at the Site, WPX respectfully submits this RWP, which summarizes soil sampling activities and initial response efforts that have occurred and proposes additional remediation and soil sampling activities to further investigate and address reportable releases of produced water and/or crude oil at the Site.

Additionallly, WPX has provided relevant information from a recent deferral request (Incident Number NRM2034258716), authored by WSP USA Inc. (WSP) and approved by New Mexico Oil Conservation Division (NMOCD) on January 13, 2022 for a release that overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the field summary and laboratory analytical data as it is applicable in the deferral request for Incident Number nAB1632647780. All previous remediation activities and soil sample analytical results can be referenced in the original approved Deferral Request.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.022210° N, 103.867013°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (Figure 1 in Appendix A).

NHMP1412241998

On March 18, 2014, a 4-inch PVC transfer line leaked and caused 200 barrels (bbls) of oil and produced water to be released and migrate southwest-west approximately 0.6 miles through the pasture. No fluids were able to be recovered immediately. WPX reported the release to the NMOCD via email and with a subsquent Corrective Action Form C-141 (Form C-141) dated March 29, 2014. The release was assigned Incident Number NHMP1412241998.

nAB1632647780

On November 5, 2016, a pump air locked and caused an oil tank to overfill and release approximately 70 bbls of crude oil into the earthen containment berm. No fluids escaped the earthern containment berm. Approximately 66 bbls of crude oil were recovered via vacuum truck. WPX reported the release to the NMOCD via email on November 6, 2016 and with a subsquent Form C-141 on November 17, 2016. The release was assigned Incident Number nAB1632647780.

nAB1712951426

On April 20, 2017, human error during equipment reconfiguration resulted in overpressurization of an aboveground poly line that released approximately 50 bbls of crude oil to the pasture north and west of the well pad location. Approximately 40 bbls of crude oil were recovered. WPX

Ross Draw Unit #011

Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426

nAB1728553778, nAB1728551205, nAPP2200728755

Remediation Work Plan Report

April 1, 2022



reported the release to the NMOCD via email on April 21, 2017 and with a subsquent Form C-141 on May 2, 2017. The release was assigned Incident Number nAB1712951426.

nAB1728553778 and nAB1728551205

On September 21, 2017 and September 30, 2017 it was discovered that a poly line had failed between 75 and 100 feet south of the well pad and resulted in an unknown volume of produced water to be released and migrate an estimated 600 yards southwest in the pasture. No fluids were able to be recovered immediately due to heavy rainfall but volumes appeared to exceed the reportable limit. WPX reported the releases to the NMOCD via email and with subsquent Form C-141s on October 5, 2017. Incident Numbers nAB1728553778 and nAB1728551205, respectively were assigned.

nAPP2200728755

On January 4, 2022, the dump malfunctioned on a separator, causing the release of approximately 24 bbls of produced water and 20 bbls of crude oil into a earthen berm secondary containment and immediate pasture. No fluids were able to be recovered immediately but the release area on pad was excavated to approximately 0.5 foot below ground surface (bgs) to address surface staining. WPX reported the release to the NMOCD via email on January 4, 2022 and with a subsquent Form C-141 January 10, 2022. The release was assigned Incident Number nAPP2200728755.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A.**

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a soil boring (MW-1) that was drilled by Talon LPE on December 9, 2020, located approximately 0.40 miles southeast of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 106 feet bgs. No fluids were observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The well log is provided as **Appendix B.**

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Ross Draw Unit #011

Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426

nAB1728553778, nAB1728551205, nAPP2200728755

Remediation Work Plan Report

April 1, 2022



A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet in the pasture area that was impacted by the release.

1.3 Project Objective

The primary objectives of Ensolum's scope of services were to document soil characterization and delineation actions performed at the Site were completed in accordance with the applicable NMOCD regulatory RWP guidelines and to document those concentrations of constituents of concern (COCs) present in soil remaining on-Site required to be addressed.

2.0 SOIL SAMPLING AND INITIAL REMEDIAL ACTIONS

WPX conducted initial remediation activities for Incident Number nAPP2200728755 by excavating impacted soil on pad for off-Site disposal. WSP conducted soil sampling activities to verify the presence or absence of soil impacts associated with the subject releases.

2.1 Delineation Activities

nAP1712951426 and nAPP2200728755

On January 25, 2022 and Febraury 28, 2022, delineation activities were conducted by WSP to confirm the presence or absence of impacted soil in areas associated with the subject release area. Delineation samples were collected in boreholes advanced with a hand auger (samples designated BH). Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 through BH17): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 3 foot bgs) and the greatest depth (4 feet bgs). The location of the delineation samples are shown in Figure 2A in Appendix A. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (Appendix C). The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation during delineation activities is included in Appendix D.

nAB1728553778 and nAB1728551205

On March 3, 2022, delineation activities were conducted by WSP to confirm the presence or absence of impacted soil in areas associated with the subject release area. Delineation samples were collected in boreholes advanced with a hand auger (samples designated BH). Delineation activites were directed by field sceening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 through BH10): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 2 feet bgs) and the greatest depth (4 feet bgs). The location of the delineation samples are shown in **Figure 2B in Appendix A**. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil

April 1, 2022

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



sampling logs (Appendix C). The soil samples were handled, collected and analyzed as previously described. Photographic documentation during delineation activities is included in Appendix D.

3.0 SOIL SAMPLING RESULTS

nAP1712951426 and nAPP2200728755

Laboratory analytical results for delineation soil samples BH03, BH04, BH10, BH13, BH16 and BH17 indicated COCs were above the reclamation standard requirement. Based on the current extent of soil characterization at the Site, it appears that vertical impacts exceeding Closure Criteria do not exceed 4 feet bgs in the pasture. Laboratory analytical results for delineation soil samples BH01, BH02, BH05 through BH09, BH11, BH12, BH14 and BH15 indicated COCs were within the applicable Closure Criteria and/or reclamation standard requirement.

nAB1728553778 and nAB1728551205

Laboratory analytical results for delineation soil samples BH01 through BH03 indicated COCs were above the reclamation standard requirement. Based on the current extent of soil characterization at the Site, it appears that vertical impacts exceeding Closure Criteria do not exceed 4 feet bgs in the pasture. Laboratory analytical results for delineation soil samples BH04 through BH10 indicated COCs were within the applicable reclamation standard requirement.

Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

4.0 DEFFERAL REQUEST

nAB1632647780

The Deferral Request for Incident Number NRM2034258716, authored by WSP, was approved by NMOCD on January 13, 2022 and overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the laboratory analytical data as it can be applicable for this release to provide vertical and lateral definition of the historical release. All previous remediation activities and soil sample analytical results can be referenced in the original approved Deferral Request.

Based on the summary of the approved Deferral Request, the following findings and conclusions regarding the incident are presented:

- Based on laboratory analytical results of confirmation and delineation soil samples for Incident Number NRM2034258716, impacts associated with Incident Number nAB1632647780 were confirmed to have remained within the secondary containment, as documented on the Form C-141;
- Based on soil laboratory analytical results and extent of release area within the secondary
 earthen berm containment, an estimated 102 cubic yards was approved to be deferred
 until the Plugging and Abandonment or recontruction of the Site, whichever comes first.

Remediation Work Plan Report

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755



April 1, 2022

Based on the findings and conclusions of this approved Deferral Report and review and applicability to historical Incident Number nAB1632647780, No Further Action appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD using the previously collected data.

5.0 REMEDIATION WORK PLAN

Based on the results documented in this report, the following findings and conclusions regarding the releases are presented:

- Areas within the top four feet of the pasture contain impacted soil exceeding the reclamation standard; however, impacts exceeding Closure Criteria within the area of concerns for nAB1728551205, nAB1728553778 and nAB1712951426 and release extent for nAPP220728755 do not appear to exceed 4 feet bgs;
- Based on existing soil analytical results and mapped extent of the release areas, an
 estimated 6,840 cubic yards of impacted soil is anticipated to be remediated and/or
 removed from the Site for disposal in accordance with state and federal regulations. The
 current proposed excavation extent is depicted on Figure 4 in Appendix A;
- Based on laboratory analytical results for delineation samples from BH01, BH06, BH05, BH09, BH11 and BH12 (nAP1712951426 and nAPP2200728755), no remediation efforts are required in these areas. No areas on pad exceed the Closure Criteria for the Site.

Based on the conclusions presented above, the following remediation is proposed:

- Soil characterization and investigation is required to determine the lateral and vertical extent of impact associated with Incident Number NHMP1412241998. A proposed tract that aligns with details provided on the C-141 is provided on Figure 3 in Appendix A. Ensolum will conduct delineation activities to verify the presence or absence of soil impacts associated with this incident. Laboratory analytical results will be used to update additional cubic yards of soil to be remediated, if any;
- Horizontal delineation of all releases associated with nAB1728551205, nAB1728553778 and nAB1712951426 and nAPP220728755 will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts;
- Impacted soil will be excavated from the top four feet of the areas in the pasture containing soil exceeding the reclamation standard. Excavated soil will then be transferred to: (a) a New Mexico approved landfill facility for disposal and the excavation will be backfilled with Non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019) or (b) an on-site ex-situ treatment cell for chloride extraction. Following review of the additional soil characterization at the Site, WPX will re-evaluate the proposed remedial options and submit a revised RWP detailing the option (b) treatment and sampling plan for NMOCD review, if selected.
- Surface scraping may be conducted to remove any minor surficial staining in areas that are delineated;

April 1, 2022

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



 Access for remediation or disturbance that occurs offsite requires BLM approval with additional coverage. WPX will prepare and submit documentation for proposed work areas before initiating corrective actions;

- There are areas off pad (ex. Right-of-Way) that will likely require third-party operator oversight and additional safety measures before or during remediation activities near their respective subsurface pipelines. WPX or the third party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative.
- Subsequent to the completion of remediation and receipt of soil confirmation sample results documenting that impacted soil had been removed, the excavation will be backfilled with clean and/or treated soil and restored to "as close to its original state" as possible.

5.1 Proposed Sampling

WPX is requesting a variance to the 200 square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 193 floor samples within the release extent, excluding sidewall samples. Due to the large extent of the impacted areas (38,500 square feet), Ensolum proposes increasing the confirmation sampling size to collecting a 5-point composite sample to represent each 1,000 square foot area for the floors and sidewalls of the excavation.

5.2 Proposed Schedule

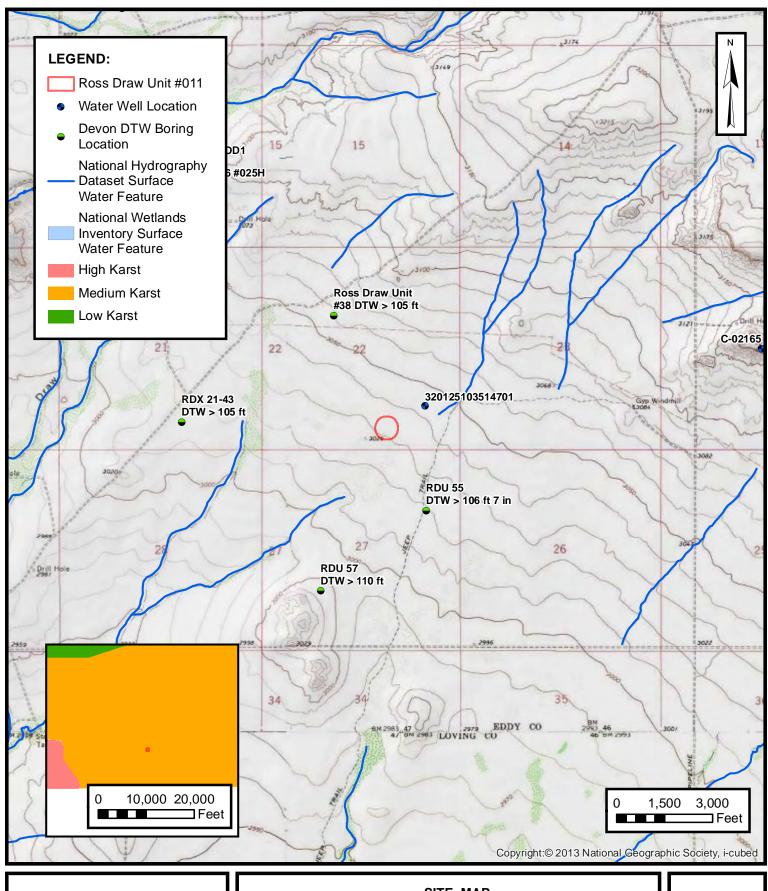
WPX believes the scope of work described above will meet requirements set forth in NMAC 19.15.29.13 and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWP from NMOCD.

Based on the extent of corrective measures, planning and potential third-party operator oversight at the Site, WPX anticipates beginning remediation by **January 2023**.



APPENDIX A

Figures





SITE MAP

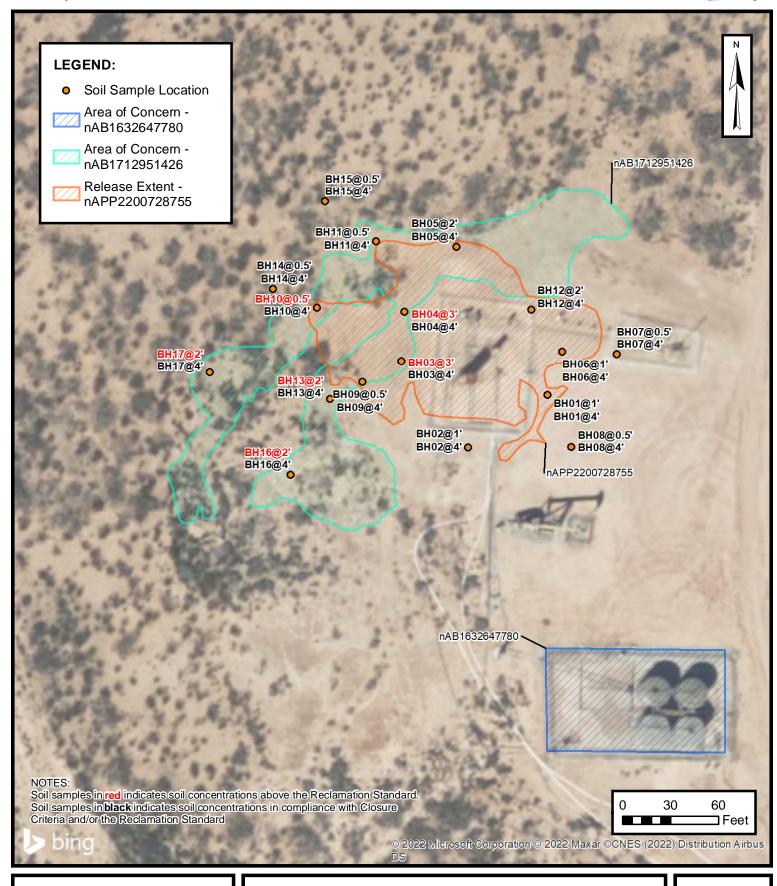
WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

1

Released to Imaging: 3/20/2024 8243250 AM





DELINEATION SOIL SAMPLE LOCATION MAP 2A

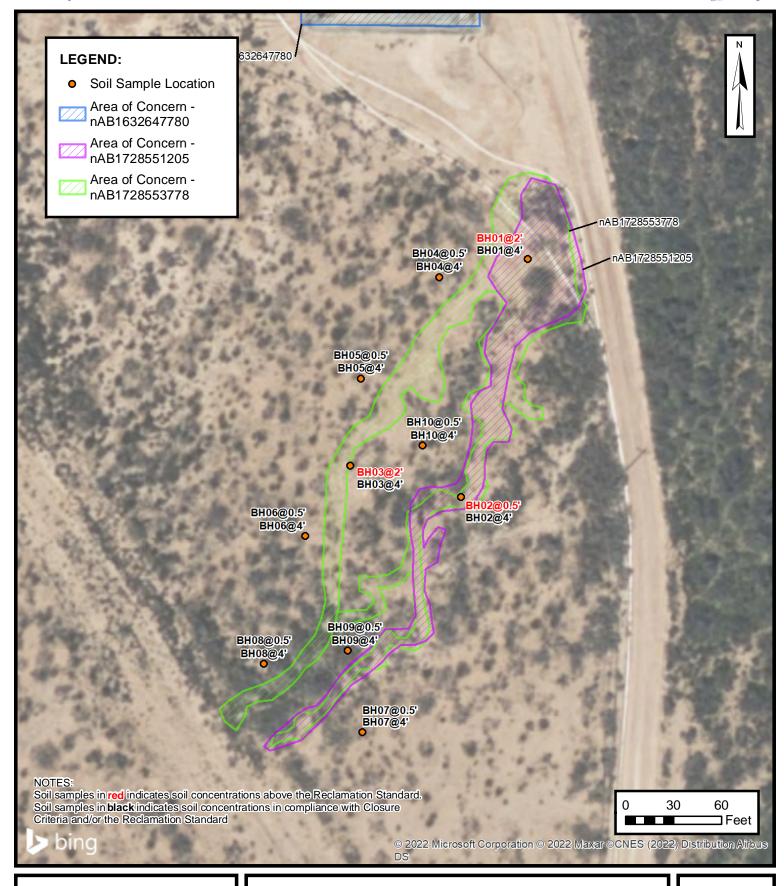
WPX ENERGY PERMIAN, LLC. **ROSS DRAW UNIT #011** Eddy County, New Mexico

32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE 2A

Released to Imaging: 3/20/2024 824315 PAM





DELINEATION SOIL SAMPLE LOCATION MAP 2B

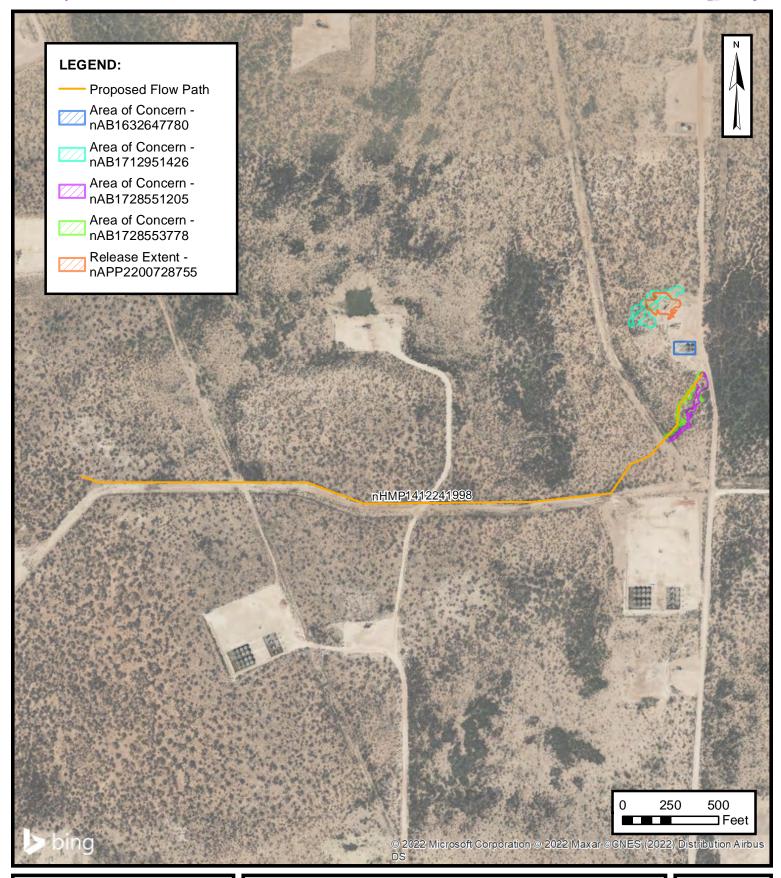
WPX ENERGY PERMIAN, LLC.
ROSS DRAW UNIT #011
Eddy County, New Mexico

32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE 2B

Released to Imaging: 3/20/2024 824315 PAM





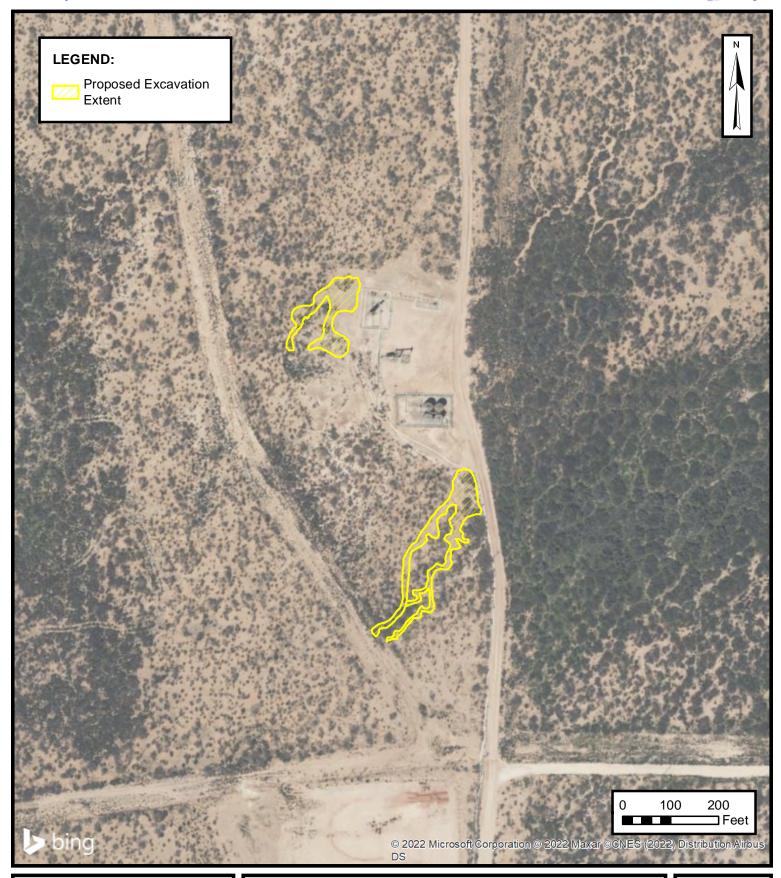
AREA OF CONCERN TRACT

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

3





PROPOSED EXCAVATION AREAS

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

4



APPENDIX B

Well Record

		HR							MONITORING W	ELL COMPLETION	N DIAGRAM	
\nearrow		CO	MPL	IAN	C F		Boring/Wel		W-1	Location: Ross Draw U	Init #55	
	79	SO	LUI	101	NS		Date:			Client:		
Drilling Me	ethod:		Sampling N	Method:			Logged By:		2/2020	WPX Ene	ergy	
Α	Air Rotar	,	. 0	No	ne				nn, PG	Talon LPE		
Gravel Pack	k Type: 0/20 Sar		Gravel Pac	k Depth Into	erval: Bags		Seal Type:	lone	Seal Depth Interval: None	Latitude:		
Casing Typ		Diameter:		Depth Inter				al Depth (ft. BC		32.016165 Longitude:		
PVC		2-inch		0-101'7					5'7"	-103.863		
Screen Typ PVC	e:	Slot: 0.010-ir	nch	Diameter: 2-inch	Depth 1 101'7"	interval:	Well Total	Depth (ft. BGS): 5 '7''	Depth to Water (ft. BTOC): >106' 7"	DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID		y/Remarks	Well Completion	
0 5 10 15	NM	L	D	N	N	NM	SP	NS	_	olored poorly graded n minor silt	-	
20 25 30	NM	L	D	N	N	NM	SW	NS	_	ell graded fine sand in and coarse sand	-	
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	_	n poorly graded fine minor gravel	-	
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS		ded fine sand with regravel		
90 95	NM	L	D	N	N	NM	SP	NS	with minor silt and	ly graded fine sand minor medium sand	$[\ \] \]$	
100 106'7"	NM	M	D	N	N	NM	SC	NS		d with moderate silt TD 106'7"		



APPENDIX C

Lithologic Soil Sampling Logs

								Comple Name: DI 101	Data: 1 35 3033
								Sample Name: BH01	Date: 1-25-2022
		E	N	S	OI	U	M	Site Name: Ross Draw Unit #0 Incident Number: nAPP22007	
_	- 20		_						20/33 & HAB1/12931420
		UTUOL	2010	. /	ANADLING	.100		Job Number: 03A1987006	A A A A A A A A A A A A A A A A A A A
C = = ==1					AMPLING	LUG		Logged By: MR	Method: Hand Auger Total Depth: 4'
				3.866936°		alarida Tast (Ctrine and	Hole Diameter: 4" PID for chloride and vapor, res	· ·
			-			factors included.	spectively. Chiloride test		
Moisture Content									Descriptions
					1	0	SP-SM	0-4', SAND, dry, dark bro silt, some staining, I	own, poorly graded with H-C odor.
М	1,260	1.6	Υ	BH01	1 - -	- - - - - - -		At 2', decrease in staing decrease in odor to At 3', no staining, no odo	o slight H-C ofor.
М	816	0.9	Υ		2	2			
М	1,020	0.2	Ν		3 <u>-</u> 3 <u>-</u> -	- 3 -			
M	1,176	0.1	N	BH01	4 -	4 - 4 	TD	Total depth at 4' bgs.	
					- - -	- - -			

									<u> </u>
_								Sample Name: BH02	Date: 1-25-2022
			N	S	OI	. U	M	Site Name: Ross Draw Unit #	
_								Incident Number: nAPP2200	728755 & nAB1712951426
			20:1	. / 00:: =				Job Number: 03A1987006	
					AMPLING	LOG		Logged By: MR	Method: Hand Auger
				3.867072°		1	C1	Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content									c Descriptions
	<128 <128 <128	0.1 0 0.2		вно2	1	1 0 - 1 - 2 - 3	_	0-4', SAND, dry, dark brisilt, no staining, no	rown, poorly graded with o odor.
					- - - - -	- - - -			

								Sample Name: BH03	Date: 1-25-2022
	27				0 1			Site Name: Ross Draw Unit #011	Dutc. 1 23 2022
ПЕ			N	5	OL	. U	M	Incident Number: nAPP22007287	55 & nΔR1712951426
	97							Job Number: 03A1987006	33 4 11/12/31/120
		ITHOL	OGIC	· / SOIL S	SAMPLING	LOG		Logged By: MR	Method: Hand Auger
Coord				3.867186°		100		Hole Diameter: 4"	Total Depth: 4'
						loride Test '	Strins and	PID for chloride and vapor, respec	
						factors included.			
Moisture Content							_	Lithologic Des	·
					1	0	SP-SM	0-4', SAND, dry, dark brown silt, no staining, slight o	n, poorly graded with
					_	<u>-</u>		o, o	
					=	=		At 3', no odor.	
	400		.,		_	- ,		71.0 7110 00011	
M	<128	2.5	Υ		1	_ 1			
					_	- -			
					-	-			
					_	- -			
M	280	2.5	N		2	2			
					_	-			
					-	-			
					_	_			
М	1,544	1.1	N	BH03	3	_ 3			
					-	-			
					_	- -			
					_	_			
М	1,896	1.4	N	BH03	4	4	TD	Total depth at 4' bgs.	
					-	-			
					_	- -			
					_	_			
					-	- -			
					=	=			
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] -	-			
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								S N BUG4	D	
		_				-		Sample Name: BH04	Date: 1-25-2022	
	2		N	S	OL		M	Site Name: Ross Draw Unit #		
								Incident Number: nAPP2200	/28/55 & nAB1/12951426	
		LITUOL	001	. /	A NADI INIO	100		Job Number: 03A1987006	Name - de Herrida	
Caaud				3.867181°	AMPLING	LUG		Logged By: MR Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'	
						Jarida Tast (Strine and	PID for chloride and vapor, re	· · · · · · · · · · · · · · · · · · ·	
								factors included.	espectively. Cilionae test	
Moisture Content										
					1	<u> </u>	SP-SM	0-4', SAND, dry, dark br	own, poorly graded with slight odor.	
					_	_		5, 5 <u>д.</u> ,	<u></u>	
					=	_		At 2', no staining.		
	100	27.0	v							
M	180	27.6	Υ		1 _	_ 1		At 3', color change to lig	ght brown, no odor.	
					_	_				
					-	-		At 4' color change to da	ırk brown.	
М	1 260	9.9	N		2	2				
IVI	1,260	9.9	N							
					_	<u> </u>				
					_	_				
М	2,552	14.5	N	BH04	3	3				
171	2,332	14.5	IV	D1104		_				
					_	_				
					_	_				
М	1,772	20.2	N	BH04	4	4	TD	Total depth at 4' bgs.		
	_,			2	· -	<u> </u>		retar dept at 1 age.		
					_	-				
					_					
					-	-				
					_	<u> </u>				
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					_	<u> </u>				
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					-	}				
					-	-				
					_	_				

								S 1 N BUSE	D
	100							Sample Name: BH05	Date: 1-25-2022
ш			N	S	OI	_ U	M	Site Name: Ross Draw Unit #01	
								Incident Number: nAPP220072	8/55 & nAB1/12951426
				. /				Job Number: 03A1987006	<u> </u>
					AMPLING	LOG		Logged By: MR	Method: Hand Auger
				3.867092°			Hole Diameter: 4"	Total Depth: 4'	
			-			PID for chloride and vapor, respectors included.	pectively. Chloride test		
Moisture Content								Lithologic D	
]	0	SP-SM	0-4', SAND, dry, dark bro- silt, no staining, no o	wn, poorly graded with odor.
					-	 - -		At 2', color change to ligh	it brown.
М	152	0.1	N	BH05	1 _	1			
					- - -	 - -			
М	<128	0.1	N		2	2			
					- - -	- -			
М	<128	0.1	N		3 <u>-</u> 3 <u>-</u>	3			
М	<128	0.1	N	BH05	4	4	TD	Total depth at 4' bgs.	

							Comple Name DUOC	Detail 1 25 2022	
							Sample Name: BH06	Date: 1-25-2022	
		N	S	OL	_ U	M	Site Name: Ross Draw Unit #		
							Incident Number: nAPP2200	7/28/33 & HAB1/12931420	
	LITUOL	2010	. /	ANADLING	100		Job Number: 03A1987006	Nash-ad-Hand Aven-	
				AMPLING	LUG		Logged By: MR Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'	
Coordinates: 3					Jarida Tast (Ctrine and	PID for chloride and vapor, r	· · · · · · · · · · · · · · · · · · ·	
		_			factors included.	espectively. Chiloride test			
Moisture Content Chloride (ppm)									
M 488	0.1	2	вно6] - - - 1	0 - - - 1	SP-SM	0-4', SAND, dry, dark b silt, no staining, no At 3', color change to li		
M 444	0	N	БПОО	- - - 2	- 1 - - - 2		Ac 3 , color change to h	ight brown.	
M 444	0.9	N		3 _ -	- - - - - 3				
M 356	0.4	N	BH06	4	- 4 - 4 	TD	Total depth at 4' bgs.		

								Cample Name: BU07	Data: 2 19 2022
					•			Sample Name: BH07 Site Name: Ross Draw Unit #01	Date: 2-18-2022
	-		N	S	OL	_ U	M	Incident Number: nAPP220072	
_	10							Job Number: 03A1987006	6/33 & HAB1/12931420
		LITUOL	001	. /	CANADLING	.100			Markhards Hand Assaul
C = = #d					SAMPLING	LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'
				.03.866818		Jarida Tast (trine and	Hole Diameter: 4" PID for chloride and vapor, resp	,
								factors included.	ectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	-	Descriptions
D	588	0.1	N	BH07	0.5 <u>-</u>	<u> </u>	CCHE	0-1',CALICHE, dry, light br very fine-fine grain,	own-brown, well graded, no stain, no odor.
D	<128	0.7	N		1 -	- - - 1 -	SP-SM	1-3',SAND, dry, brown, po very fine-fine grain,	porly graded with silt, no stain, no odor.
D	<128	0.2	Ν		2 -	- 2 - 2 3	CCHE	3-4' CALICHE dry light by	own-brown, well graded,
	444	0.2	N	RH07	- - - -	- - -	TD	very fine-medium gr	ain, no stain, no odor.
D	444	0.2	Z	BH07	4	_ 4 	טו	Total depth at 4' bgs.	

								Sample Name: BH08	Date: 2-18-2022
		-						Site Name: Ross Draw Unit #011	2000.2.20.2022
			N	3		U		Incident Number: nAPP22007287	55 & nAB1712951426
								Job Number: 03A1987006	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.866896°	, <u>-</u>			Hole Diameter: 4"	Total Depth: 4'
I					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	
								actors included.	,
				0			~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist ont	Chloride (ppm)	Vapor (ppm)	ain	μp	Depth	(ft bgs)	CS/ ym	Lithologic De	scriptions
ΣÖ) (1)	,)	S	Sal	(ft bgs)	, ,	US		
					1	0	CCHE	0-1',CALICHE, dry, light bro	wn-brown, well graded,
D	444	0.1	N	BH08	0.5	-		very fine-fine grain, no	o stain, no odor.
					_	_			
					_	_			
D	152	0.1	N		1 -	1	SP-SM	1-3',SAND, dry, brown, poo	rly graded with silt,
					-	_		very fine-fine grain, no	stain, no odor.
					_	_			
					_				
D	<128	0.1	N		2 -	2			
	120	0.1	.,			֡֓֡֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֓֡֓֡			
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					_	_ 3			
					<u>-</u>	_			
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					_	_			
D	<128	0.1	N	BH08	4 _	_ 4	TD	Total depth at 4' bgs.	
					_ _	_			
					-	_			
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								Sample Name: BH09	Date: 2-18-2022
					0 I			Site Name: Ross Draw Unit #011	Date: 2-10-2022
	100	=	N	5	OL		M	Incident Number: nAPP22007287	755 & nAR1712951426
_	100							Job Number: 03A1987006	33 Q 11/1017 12331420
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.867253°				Hole Diameter: 4"	Total Depth: 4'
						loride Test S	Strips and	PID for chloride and vapor, respec	· ·
								actors included.	arrely. Cimeriae test
							~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist ont	Chloride (ppm)	Vapor (ppm)	ain	ηpl	Depth	(ft bgs)	CS/I	Lithologic De	escriptions
žΰ	5)	/)	St	Sar	(ft bgs)	(10.080)	USO		
						0	SP-SM	0-4',SAND, dry, brown, poo	orly graded with silt,
D	444	0.5	N	BH09	0.5	-		very fine-fine grain, no	o stain, no odor.
					_	_			
					_	_			
D	820	0.9	Ν		1 _	_ 1			
					_	-			
					_	_			
					_	_			
D	1,360	0.8	Ν		2	_ 2			
					_	_ =			
					_	_			
					_	-			
					-	3		At 3', color change to light	brown-brown.
					_	-		, it o , color olialings to light	
					_	_			
					_	-			
D	756	1.8	N	BH09	4	4	TD	Total depth at 4' bgs.	
	750	1.0	.,	B1103	· -	- ' -	,,,	Total depth at 1 bgs.	
					_	-			
					_	-			
					-	-			
					_	-			
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								Sample Name: BH10	Date: 2-18-2022
								Site Name: Ross Draw Unit #011	2446. 2 20 2022
Пе			N	5	U	U	V	Incident Number: nAPP22007287	55 & nAB1712951426
	9							Job Number: 03A1987006	
		LITHOL	OGIC	: / SOIL S	AMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.867331°				Hole Diameter: 4"	Total Depth: 4'
					ith HACH Ch	loride Test	Strips and	PID for chloride and vapor, respec	•
			_					factors included.	,
ىـ ە	a)		bo	D	Campla		쑹 _		
tur ten	rid m)	oor m)	Jing	le I	Sample	Depth	/Ro Ibo	Lithologic Doc	corintions
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
2 0)		S	Sa	(it bgs)		_		
D	280	0.5	Ν	BH10	0.5	0	SP	0-1',SAND, dry, brown, poo very fine-fine grain, no	rly graded,
U	280	0.5	IN	вито	0.5	-		very fine-fine grain, no	Stain, no odor.
					_	[
					-	_			
D	<128	0.9	N		1	1	SP-SM	1-3', SAND, dry, reddish bro	own-brown, poorly
					-	-		graded with silt, very fi no odor.	ne-fine grain, no stain,
					_	<u>-</u>		110 0001.	
					_	_			
D	2,224	0.8	N		2	2			
					_				
					_	Ĺ			
					-	_			
					_	-			
					_	_ 3	SM	3-4', SILTY SAND, dry, tan-li medium grain, no stair	ght brown, fine-
					<u>-</u>	_		illedidili graili, ilo stali	i, ilo odor.
					-	-			
					_	_			
D	11,016	1.8	Ν	BH10	4	4	TD	Total depth at 4' bgs.	
					-	-			
					_	<u>-</u>			
					_	_			
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								Sample Name: BH11	Date: 2-18-2022
								Site Name: Ross Draw Unit #011	Date: 2-10-2022
ПВ			N	5	OI	U	M	Incident Number: nAPP22007287	55 & nAR1712051426
_								Job Number: 03A1987006	33 & HABI7 12331420
		LITHOL	OGIC	'/ SOIL S	SAMPLING	ilog		Logged By: GM	Method: Hand Auger
Coord				3.867229°				Hole Diameter: 4"	Total Depth: 4'
						loride Test !	Strips and	PID for chloride and vapor, respec	
								factors included.	
-							~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Aoisture Content	olor ppr	Vapor (ppm)	ain	ηp	Depth	(ft bgs)	CS/ yml	Lithologic Des	scriptions
ΣÖ	Cł		St	Sai	(ft bgs)	, ,	USO		
						0	SP	0-3', SAND, dry, brown, poo very fine-fine grain, no	orly graded,
D	<128	2.2	N	BH11	0.5	-		very fine-fine grain, no	stain, no odor.
					_	<u> </u>			
					_				
D	<128	4.3	N		1 -	1			
					_	F			
					_	<u> </u>			
					_				
D	120	2.3	N		2	2			
	120	2.5							
					_	<u> </u>			
					_	L			
					-	3	CCLIE	2 4 CALICUE des tan wall	aradad fina
					-	_ 3	ССПЕ	3-4', CALICHE, dry, tan, well medium grain, no stair	n, no odor.
					_			,	,
					-	-			
				5		Γ.			
D	2,188	4.3	N	BH11	4 _	4	TD	Total depth at 4' bgs.	
					_	L			
					-	-			
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								Comple Names BUI2	Data: 2.29.2022
					•			Sample Name: BH12 Site Name: Ross Draw Unit #0	Date: 2-28-2022
Ш	_		N	S	OI	U	M	Incident Number: nAPP22007	
_								Job Number: 03A1987006	20/33 & HAB1/12931420
		ITUOL	2010	. /	ANADLINIC	100			
					AMPLING	LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'
				3.866964°			~· · ·	Hole Diameter: 4"	· ·
			_					PID for chloride and vapor, re factors included.	spectively. Chloride test
Moisture Content									Descriptions
D	1,556	0.3	N		0.5 <u>-</u>	L 0 - -	SW-SM	0-1', SAND, dry, brown, very fine-fine grain	well graded with silt, , no stain, no odor.
D	1,780	0.4	N		1 _ - -	- - 1 - -	SP-SM	1-4', SAND, dry, brown, very fine-fine grain	poorly graded with silt, , no stain, no odor.
D	2,200	0.9	N	BH12	2	- - - -			
					- - - -	- - 3 - - -			
D	1,556	0.3	N	BH12	4	4 	TD	Total depth at 4' bgs.	

								Sample Name: BH13	Date: 2-28-2022
					O 1			Site Name: Ross Draw Unit #011	Date: 2 20 2022
ПВ			N	5	OL	. U	M	Incident Number: nAPP22007287	55 & nΔR1712951426
	20							Job Number: 03A1987006	55 & 11/(51/12551126
		ITHOL	OGIC	' / SOIL S	AMPLING	ilog		Logged By: GM	Method: Hand Auger
Coord				3.867308°	AIVII LIIVO	100		Hole Diameter: 4"	Total Depth: 4'
					rith HACH Ch	loride Test '	Strins and	PID for chloride and vapor, respec	<u>'</u>
			_					factors included.	
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock							Lithologic Des	scriptions
D	142	N/A	N		0.5	0	SP	0-2', SAND, dry, brown, poo fine-fine grain, organic	orly graded, very s, no stain, no odor.
					- - -	- - -		Note: PID not calibrating. O chlorides.	nly screening for
D	1,360	N/A	N		1 _	_ 1		At 1', some silt.	
D	2,840	N/A	N	BH13	2	2	SW-SM	2-3', SAND, dry, brown, wel very fine- fine grain, no	l graded with silt, o stain, no odor.
					- - - - -	- - - -	ССНЕ	3-4', CALICHE, dry, light bro fine-fine grain, no staiı	wn, well graded, very n, no odor.
D	4,884	N/A	Z	BH13	4	- 4 	TD	Total depth at 4' bgs.	

								Canada Nama BUI 4	D-t 2 20 2022
	200							Sample Name: BH14	Date: 2-28-2022
ш	2		N	S	OI	U	M	Site Name: Ross Draw Unit #0: Incident Number: nAPP220072	
-									28/55 & NAB1/12951426
		UTUOL	2010	. /	ARADLING	2100		Job Number: 03A1987006	
					AMPLING	LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'
				3.867406°		1 11 = 14	~	Hole Diameter: 4"	· ·
			-			•	PID for chloride and vapor, res factors included.	pectively. Chloride test	
Moisture Content									Descriptions
D	360	N/A	N	BH14	0.5 <u> </u>	0	SP	0-4', SAND, dry, brown, prown, fine-fine grain, orga	ooorly graded, very nics, no stain, no odor.
D	<120	N/A	Ν		1 _ - - -	1		NOTE: PID not calibrating chlorides.	g. Only screening for
D	<120	N/A	N		2	2			
					- - - -	3		At 4', some silt.	
D	120	N/A	N	BH14	4 -	4	TD	Total depth at 4' bgs.	

								Cample Name: DUIT	Date: 2-28-2022
								Sample Name: BH15	
	20	E	N	S	OI	_ U	M	Site Name: Ross Draw Unit #03 Incident Number: nAPP220072	
_			_						20/33 & HAB1/12931420
		ITUOL	2010	. /	ANADLING	2100		Job Number: 03A1987006	land the table
CI					AMPLING	LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'
				3.867317°		-1	~a	Hole Diameter: 4"	· ·
			_					PID for chloride and vapor, res factors included.	pectively. Chloride test
Moisture Content									Descriptions
D	<120	N/A	N	BH15	0.5 <u>-</u>	0	SP	0-3', SAND, dry, brown, p fine-fine grain, orga	ooorly graded, very nics, no stain, no odor.
D	<120	N/A	N		1 _ - - -	1		NOTE: PID not calibrating chlorides.	g. Only screening for
D	<120	N/A	Ν		2	2			
					- - - -	3	SW	3-4', SAND, dry, light bro fine-fine grain, no st	wn, well graded, very cain, no odor.
D	<120	N/A	Z	BH15	4	4	TD	Total depth at 4' bgs.	

								Sample Name: BH16	Date: 2-28-2022
-	-				O I			Site Name: Ross Draw Unit #011	Date: 2 20 2022
ПВ			N	5	OL	. U	V	Incident Number: nAPP22007287	55 & nΔR1712951426
_	30							Job Number: 03A1987006	33 & 11/(31/12331120
		ITHOL	OGIC	' / SOIL S	AMPLING	ilog		Logged By: GM	Method: Hand Auger
Coord				3.867375°		100		Hole Diameter: 4"	Total Depth: 4'
						loride Test '	Strins and	PID for chloride and vapor, respec	,
								factors included.	
Moisture Content								Lithologic Des	scriptions
D	<120	N/A	Ν		0.5 <u>-</u>	0 - -	SP	0-3', SAND, dry, brown, poo fine-fine grain, organic	orly graded, very s, no stain, no odor.
D	1,360	N/A	N		1 _	- _ 1 -		NOTE: PID not calibrating. C chlorides.	Only screening for
D	1,556	N/A	Ν	BH16	2 - - -	- - - 2 - -			
					- - - - -	- _ 3 - -	SW-SM	3-4', SAND, dry, tan-light br silt, very fine-fine grain	own, well graded with , no stain, no odor.
D	3,076	N/A	N	BH16	4 -	- 4 	TD	Total depth at 4' bgs.	

								Carrada Namas BU17	Data: 2.20.2022
								Sample Name: BH17	Date: 2-28-2022
			N	S	OI	U	M	Site Name: Ross Draw Unit #01 Incident Number: nAPP220072	
_									8755 & NAB1/12951426
		ITUO	2010	. /	ADADIIA	. 100		Job Number: 03A1987006	hashada ta
					AMPLING	LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'
				3.867514°		1 11 - 1	c	Hole Diameter: 4"	· ·
			_				•	PID for chloride and vapor, resp factors included.	ectively. Chloride test
Moisture Content								Lithologic D	•
D	<120	N/A	N		0.5	0	SP	0-3', SAND, dry, brown, p fine-fine grain, organ	oorly graded, very lics, no stain, no odor.
					- -	- -		At 1', no organics.	
D	<120	N/A	N		1 _	1		NOTE: PID not calibrating chlorides.	. Only screening for
D	888	N/A	Ν	BH17	2	2			
					- - - -	3 - 3 -	SW-SM	3-4', SAND, dry, light brov silt, very fine-fine gra	wn, well graded with ain, no stain, no odor.
D	6,160	N/A	Z	BH17	4	- 4 	TD	Total depth at 4' bgs.	

								Sample Name: BH01	Date: 3-3-2022
		-						Site Name: Ross Draw Unit #011	
			N	3	OL	_ U	V	Incident Number: nAB172855120	5 & nAB1728553778
								Job Number: 03A1987006	
		LITHOL	OGIO	C / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.866550°				Hole Diameter: 4"	Total Depth: 4'
						loride Test S	Strips and	PID for chloride and vapor, respec	tively. Chloride test
perfor	med with	n 1:4 dilut	ion fa	actor of soi	l to distilled	water. No co	orrection t	factors included.	·
Moisture Content							USCS/Rock Symbol	Lithologic De	scriptions
D	6,160	1.5	N		0.5	0	SP	0-1',SAND, dry, brown, poo very fine-fine grain, no	rly graded, stain, no odor.
D	6,160	1	N		1 _	_ _ _ 1	SP-SM	1-4',SAND, dry, brown, poo very fine-fine grain, no	rly graded with silt, stain, no odor.
D	6,664	0.8	N	BH01	2 -	- - - 2 -		very fine fine grain, ne	stani, no odor.
D	7,824	1.1	N	BH01	4 _ -	3 - - - - - 4	TD	Total depth at 4' bgs.	

								Sample Name: BH02	Date: 3-3-2022
								Site Name: Ross Draw Unit #0:	
			N	5	OL	_ U	M	Incident Number: nAB172855	
_	10							Job Number: 03A1987006	1203 & HAB1720333776
		LITHOL	OGI	^ / SOIL S	SAMPLING	106		Logged By: GM	Method: Hand Auger
Coord				3.866665°	AIVIF LIIVC	1100		Hole Diameter: 4"	Total Depth: 4'
					ith HΔCH Ch	Inride Test 9	Strins and	PID for chloride and vapor, res	·
								factors included.	pectively. Cilionae test
				_			~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	ain	ldu	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic	Descriptions
ğΰ	72	/ _	St	Sar	(ft bgs)	(10 263)	US(S)		
					1	0	SP	0-1',SAND, dry, brown, p	oorly graded,
D	3,076	0.4	N	BH02	0.5	-		very fine-fine grain,	no stain, no odor.
					_	_			
					_	-			
D	1,664	0.4	N		1 -	_ 1	SP-SM	1-4',SAND, dry, brown, p	oorly graded with silt.
	•				_	-		very fine-fine grain,	no stain, no odor.
					_	_			
					_	-			
D	1,452	0.5	N		2	_ 2			
	1,732	0.5	14						
					_	_			
					=	=			
					_	Γ ,			
					_	_ 3			
					_	-			
					-	-			
					_	<u>-</u>			
D	9,244	0.6	N	BH02	4 _	_ 4	TD	Total depth at 4' bgs.	
					=	=			
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								Sample Name: BH03	Date: 3-3-2022
					0 I			Site Name: Ross Draw Unit #011	Dute: 3 3 2022
		=	N	5	OL		V	Incident Number: nAB172855120	5 & nAB1728553778
_								Job Number: 03A1987006	7 Q 11/1D1720333770
		LITHOL	OGI	^ / SOIL S	SAMPLING	106		Logged By: GM	Method: Hand Auger
Coord				03.866854		100		Hole Diameter: 4"	Total Depth: 4'
						Inride Test 9	Strins and	PID for chloride and vapor, respect	,
								factors included.	ivery. emorrae test
Moisture Content								Lithologic De:	·
D	<120	0.4	N		0.5 <u> </u>	0	SP	0-1',SAND, dry, brown, poo very fine-fine grain, no	rly graded, stain, no odor.
D	252	0.3	N		1 1 -	- - - 1 -	SP-SM	1-2',SAND, dry, brown, poo very fine-fine grain, no	rly graded with silt, stain, no odor.
D	1,556	0.3	N	вн03	2 - - -	- - 2 -	SW-SM	2-4',SAND, dry, brown, well very fine-fine grain, no	graded with silt, stain, no odor.
						- - 3 - -			
D	7,216	0.9	N	BH03	4 -	- - - 4	TD	Total depth at 4' bgs.	

								T	
	200							Sample Name: BH05	Date: 3-3-2022
			N	S	OL		M	Site Name: Ross Draw Unit #	
								Incident Number: nAB17285	551205 & nAB1728553778
	-							Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866836°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D	<120	2.6	N	BH05	0.5 <u>-</u>	<u> </u>	SP	0-4',SAND, dry, brown, very fine-fine grai	poorly graded, n, no stain, no odor.
D	<120	4	Ν		1 - - -	- - - 1 - -			
D	<120	3.6	N		2 <u>-</u> 2 <u>-</u> -	- - 2 - - -			
D	<120	4.3	Z	BH05	- - - - - 4	- 3 - 3 - 4	TD	Total depth at 4' bgs.	
D	<120	4.3	N	вноз	4	- 4 	טו	Total depth at 4 bgs.	

								Sample Name: BH06	Date: 3-3-2022
					~ I			Site Name: Ross Draw Unit #011	
			N	5	OL	. U	M	Incident Number: nAB172855120	
								Job Number: 03A1987006	03 & HAD1720333770
		LITHOL	OGI	^ / SOIL 9	SAMPLING	106		Logged By: GM	Method: Hand Auger
Coord				3.866931°	AIVIF LIIVO	100		Hole Diameter: 4"	Total Depth: 4'
					ith HΔCH Ch	Inride Test 9	Strins and	PID for chloride and vapor, respe	· ·
								factors included.	ctively. Cimoriae test
							~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	ain	ldu	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic De	escriptions
ğΰ	72	/ =	St	Sar	(ft bgs)	(10.083)	US(S)		
					1	0	SP	0-4',SAND, dry, brown, pod	orly graded,
D	144	0.7	Ν	BH06	0.5	-		very fine-fine grain, n	o stain, no odor.
					_	_			
					_	_			
D	<120	0.8	N		1 -	1			
						-			
					_	_			
					_	-			
D	<120	1.7	N		2 -	2			
	,120		.,						
					_	_			
					-	-			
					-	3			
					_				
					_	_			
					_	-			
D	<120	2.9	N	BH06	4	4	TD	Total depth at 4' bgs.	
	\120	2.5	IN	БПОО		- +	וט	Total depth at 4 bgs.	
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								Sample Name: BH07	Date: 3-3-2022
	-				O I			Site Name: Ross Draw Unit #01:	
	20		N	5	OL	U	M	Incident Number: nAB17285512	
_	10							Job Number: 03A1987006	203 & HAB1720333770
		LITHOL	OGI	^ / SOIL 9	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.866833°	AIVIF LIIVC	1100		Hole Diameter: 4"	Total Depth: 4'
					ith HΔCH Ch	Iloride Test 9	Strins and	PID for chloride and vapor, resp	· ·
								factors included.	ectivery. emorrae test
							~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	aini	npl	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic D	escriptions
ğυ	ည ၂	/ =	St	Sar	(ft bgs)	(10.083)	USC Sy		
						0	SP	0-4',SAND, dry, brown, po	oorly graded,
D	<120	1.8	Ν	BH07	0.5	-		very fine-fine grain, i	no stain, no odor.
					_	_			
					_	-			
D	<120	1.9	N		1 -	_ 1			
	120	1.5	1.4			_			
					_	_			
					_	-			
_	<120	2.1	N		2	2			
D	<120	2.1	IN						
					_	- -			
					_	=			
					_	- -			
					_	3			
					_	-			
					-	-			
					_	-			
D	120	2.3	N	BH07	4	4	TD	Total depth at 4' bgs.	
					_	=			
					_	-			
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								Sample Name: BH08	Date: 3-3-2022		
								Site Name: Ross Draw Unit #011			
ENSOLUM							Incident Number: nAB1728551205 & nAB1728553778				
	10					Job Number: 03A1987006					
		LITHOL	OGI	^ / SOIL 9	SAMPLING	Logged By: GM Method: Hand Auger					
Coord				3.867002°	AIVIF LIIVC	Hole Diameter: 4"	Total Depth: 4'				
					ith HΔCH Ch						
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.										
Moisture Content	Chloride (ppm)	or)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol				
Moisture Content	Chloride (ppm)	Vapor (ppm)	aini	npl	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic Do	escriptions		
ğυ	ည ၂	/ =	St	Sar	(ft bgs)	(10.083)	USC Sy				
						0	SP	0-4',SAND, dry, brown, po	orly graded,		
D	<120	1.3	Ν	BH08	0.5	-		very fine-fine grain, n	o stain, no odor.		
					_	_					
					_	-					
D	<120	1.4	N		1 -	_ 1					
	120	1.4	14			_					
					_	_					
					_	-					
	-120	1.0				Γ ,					
D	<120	1.9	N		2	2					
					_	-					
					-	-					
					_	_					
					_	_ 3					
					=	=					
					_	- -					
					_	_					
D	<120	3.6	Ν	BH08	4	_ 4	TD	Total depth at 4' bgs.			
					-	-					
					_	- -					
					_	_					
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								Sample Name: BH09	Date: 3-3-2022			
								Site Name: Ross Draw Unit #011				
ENSOLUM							Incident Number: nAB1728551205 & nAB1728553778					
						Job Number: 03A1987006						
		LITHOL	OGI	^ / SOII 9	SAMPLING	Logged By: GM Method: Hand Auger						
Coord				3.866859°	AIVIF LIIVC	Hole Diameter: 4"	Total Depth: 4'					
					ith HΔCH Ch							
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol					
Moisture Content	Chloride (ppm)	Vapor (ppm)	aini	npl	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic D	escriptions			
Σ	ည ၂	/ =	St	Sar	(ft bgs)	(10.083)	USC Sy					
						0	SP	0-4',SAND, dry, brown, po	orly graded,			
D	<120	1.1	Ν	BH09	0.5	-		very fine-fine grain, r	no stain, no odor.			
					_	_						
					_	-						
D	<120	1.5	N		1 -	_ 1						
	120	1.5	1.4			_						
					_	_						
					_	-						
_	<120	1.7	N		2	2						
D	<120	1./	N									
					_	- -						
					_	=						
					_	- -						
					_	3						
					_	-						
					-	-						
					_	-						
D	168	1	N	BH09	4	4	TD	Total depth at 4' bgs.				
					_	=						
					_	-						
					_	_						
					_	-						
					_	=						
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	57							Sample Name: BH10	Date: 3-3-2022
			N	S	OL		M	Site Name: Ross Draw Unit #01	
								Incident Number: nAB1728551	.205 & nAB1728553778
<u> </u>								Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
	oordinates: 32.021573°, -103.866730° omments: Field screening conducted with HACH Chloride Test Strips an							Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, resp factors included.	bectively. Chloride test
perior	med with	11.4 01101		30101 01 301	r to distilled	Water. No co		detors meradea.	
ure nt	de n)) (1	ng	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	ıplε	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic I	Descriptions
Mc Co	Ch (F	> 3	Sta	San	(ft bgs)	(it bgs)	JSC		
				-,	I	0	SP	0-4',SAND, dry, brown, p	oorly graded.
D	<120	1.7	Ν	BH10	0.5	<u> </u>	J .	very fine-fine grain,	no stain, no odor.
					_	Ļ			
					_	<u> </u>			
D	<120	3.2	N		1 -	_ 1			
	.120	5.2	. •			<u> </u>			
					-	F			
					_	_			
D	<120	3.2	N		2 -	_ 2			
	\120	3.2	IN						
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					_	_ 3			
					_	Ĺ			
					-	_			
_	-120	4.3	N.I	D1140	_		TD	Total doubt at Alli	
D	<120	4.2	N	BH10	4 _	_ 4	TD	Total depth at 4' bgs.	
					_	_			
					-	-			
						-			
					-	F			
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APPENDIX D

Photographic Log

ENSOLUM

Photographic Log

WPX Energy Permian, LLC.
Ross Draw Unit #011 - Project Location
Ensolum Job Number: 03A1987006





Photograph 2

Date: January 25, 2022

Description: View of the Site during delineation activities

Photograph 2

Date: January 25, 2022

Description: View of the Site during delineation activities



Photograph 3

Date: February 28, 2022

Description: View of the Site during delineation



Photograph 4
Date: March 3, 2022
Description: View of the Site during delineation activities



APPENDIX E

Tables

Received by OCD: 3/14/2024/5:49:54 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	L Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delinea	tion Soil Sample An	alytical Results				
				Incident Num	ber: nAB1712951426	and nAPP22072875	5			
BH01	1/25/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,490
BH01	1/25/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,320
BH02	1/25/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	15.7
BH02	1/25/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	11.2
BH03	1/25/2022	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,570*
BH03	1/25/2022	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,420
BH04	1/25/2022	3	<0.00202	<0.00403	<49.9	68.8	<49.9	68.8	68.8	3,320*
BH04	1/25/2022	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,610
BH05	1/25/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	134
BH05	1/25/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	35.6
BH06	1/25/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	601
BH06	1/25/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	464
BH07	2/18/2022	0.5	<0.00199	<0.00398	<50.0	81.7	<50.0	81.7	81.7	582
BH07	2/18/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	510
BH08	2/18/2022	0.5	<0.00200	<0.00399	<50.0	108	<50.0	108	108	492
BH08	2/18/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
BH09	2/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	365
BH09	2/18/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	347
BH10	2/18/2022	0.5	<0.00200	<0.00399	<250	1,660	<250	1,660	1,660	906*
BH10	2/18/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18,000
BH11	2/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	135
BH11	2/18/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	3,220
BH12	2/28/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,610
BH12	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,360
BH13	2/28/2022	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	4,430*
BH13	2/28/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,260

Ensolum

Received by OCD: 3/14/2024/5:49:54 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 **Eddy County, New Mexico**

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
BH14	2/28/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	464
BH14	2/28/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	115
BH15	2/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	77.5
BH15	2/28/2022	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	21.4
BH16	2/28/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,940*
BH16	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,650
BH17	2/28/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	1,090*
BH17	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,280
Incident Number: nAB1728551205 and nAB1728553778										
BH01	3/3/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,700*
BH01	3/3/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	9,220
BH02	3/3/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	4,300*
BH02	3/3/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8,350
BH03	3/3/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	3,310*
BH03	3/3/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	62.6
BH04	3/3/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	45.3
BH04	3/3/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	29.1
BH05	3/3/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	5.80
BH05	3/3/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	62.6
BH06	3/3/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
BH06	3/3/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	63.4
BH07	3/3/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5.01
BH07	3/3/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	130
BH08	3/3/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	5.90
BH08	3/3/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	57.1

Ensolum 2 of 3

Received by OCD: 3/14/2024 5:49:54 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
BH09	3/3/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	10.4
BH09	3/3/2022	4	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	174
BH10	3/3/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	5.95
BH10	3/3/2022	4	<0.00199	<0.00398	<50.0	70.6	<50.0	70.6	70.6	34.6

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics
DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or reclamation requirement for Soils

Impacted by a Release

* - indicates top 4 feet in the pasture area impacted by the release, NMAC 19.15.29.13. D (1)

that will be reclaimed following remediation.

Ensolum



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody

Documentation

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1876-1

Laboratory Sample Delivery Group: Eddy

Client Project/Site: RDU 11

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 2/3/2022 12:01:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 3/20/2024 8:43:50 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

3

5

6

Q Q

11

12

16

14

Laboratory Job ID: 890-1876-1 SDG: Eddy

Table of Contents

Cover Page	ı
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	15
QC Sample Results	16
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	32

4

6

8

9

11

40

14

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11

SDG: Eddy

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

RI Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11

SDG: Eddy

Job ID: 890-1876-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1876-1

Receipt

The samples were received on 1/26/2022 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH05 (890-1876-9), BH05 (890-1876-10), BH06 (890-1876-11), (890-1883-A-1-C MS) and (890-1883-A-1-D MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18029 and analytical batch 880-18094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: WSP USA Inc.

81

90

Job ID: 890-1876-1

Lab Sample ID: 890-1876-1

01/31/22 11:10 02/01/22 11:34

01/31/22 11:10 02/01/22 11:34

Lab Sample ID: 890-1876-2

Matrix: Solid

SDG: Eddy

Matrix: Solid

Client Sample ID: BH01

Date Collected: 01/25/22 09:10

Date Received: 01/26/22 16:08

Sample Depth: 1

Project/Site: RDU 11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	\overline{U}	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Toluene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			01/28/22 12:00	01/28/22 14:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/28/22 12:00	01/28/22 14:28	1
Method: Total BTEX - Total BT	FY Calcula	tion						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Ran	nge Organic	s (DRO) (G	iC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							21/21/22 12 11	
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
				mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel Ra	ange Organ			mg/Kg Unit	D	Prepared	01/31/22 13:14 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	ange Organ	ics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 01/31/22 11:10		Dil Fac
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	ics (DRO) Qualifier	(GC) RL 50.0	Unit mg/Kg	<u>D</u>	01/31/22 11:10	Analyzed 02/01/22 11:34	1
Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ange Organ Result	ics (DRO) Qualifier	(GC)	Unit	<u>D</u>		Analyzed 02/01/22 11:34	1
Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U	(GC) RL 50.0	Unit mg/Kg	<u> </u>	01/31/22 11:10 01/31/22 11:10	Analyzed 02/01/22 11:34	Dil Fac

Client Sample ID: BH01

Date Collected: 01/25/22 09:24

Date Received: 01/26/22 16:08

Sample Depth: 4

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			01/28/22 12:00	01/28/22 14:48	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/28/22 12:00	01/28/22 14:48	1

70 - 130

70 - 130

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH01

Date Received: 01/26/22 16:08

Lab Sample ID: 890-1876-2 Date Collected: 01/25/22 09:24

Matrix: Solid

Sample Depth: 4

Method: Total BTEX - Total BTEX Calculation									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00401	U	0.00401	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Ran	ge Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/31/22 13:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 11:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 11:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			01/31/22 11:10	02/01/22 11:56	1

o-Terphenyl 92 70 - 130 01/31/22 11:10 02/01/22 11:56 Client Sample ID: BH02 Lab Sample ID: 890-1876-3

Date Collected: 01/25/22 09:32 **Matrix: Solid**

Date Received: 01/26/22 16:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/28/22 12:00	01/28/22 16:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/28/22 12:00	01/28/22 16:12	1

Method: Total BTEX - Total BTEX Calculation									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00404	U	0.00404	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

L				0 0					
Method: 8015B NM - Diesel Ra	ange Organi	cs (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:18	1	

Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/31/22 11:10 02/01/22 12:18 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 01/31/22 11:10 02/01/22 12:18

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH02

Date Collected: 01/25/22 09:32 Date Received: 01/26/22 16:08

Sample Depth: 1

Project/Site: RDU 11

Lab Sample ID: 890-1876-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	01/31/22 11:10	02/01/22 12:18	1
o-Terphenyl	90		70 - 130	01/31/22 11:10	02/01/22 12:18	1

Client Sample ID: BH02

Date Collected: 01/25/22 09:50

Lab Sample ID: 890-1876-4

Matrix: Solid

Date Collected: 01/25/22 09:50 Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/28/22 12:00	01/28/22 16:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/28/22 12:00	01/28/22 16:32	1

Method: Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0 U	50.0	mg/Kg			01/31/22 13:14	1	

Method: 8015B NM - Diesel	Range Organics (DRO) (GC)
Analyte	Result Qualifier

Analyte	Result	Qualitier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1	
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	01/31/22 11:10	02/01/22 12:40	1
o-Terphenyl	86	70 - 130	01/31/22 11:10	02/01/22 12:40	1

Client Sample ID: BH03

Date Collected: 01/25/22 10:08

Lab Sample ID: 890-1876-5

Matrix: Solid

Date Received: 01/26/22 16:08

Sample Depth: 3

Method: 8021B - Volatile	Organic Compou	nds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 16:53	1

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14

Client: WSP USA Inc.

Job ID: 890-1876-1

Lab Sample ID: 890-1876-5

SDG: Eddy

Matrix: Solid

Client Sample ID: BH03

Date Collected: 01/25/22 10:08

Date Received: 01/26/22 16:08

Sample Depth: 3

Project/Site: RDU 11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/28/22 12:00	01/28/22 16:53	1
	75		70 - 130			01/28/22 12:00	01/28/22 16:53	1

Method: Total BTEX - T	Method: Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1	

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 13:02	1		
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 13:02	1		
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 13:02	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane	82	-	70 - 130			01/31/22 11:10	02/01/22 13:02	1		
o-Ternhenyl	93		70 - 130			01/31/22 11:10	02/01/22 13:02	1		

	o-Terprierryi	93	70 - 130			01/31/22 11.10	02/01/22 13.02	,	
Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	2570	25.3	mg/Kg			02/01/22 18:58	5	

Lab Sample ID: 890-1876-6 **Client Sample ID: BH03 Matrix: Solid**

Date Collected: 01/25/22 10:14 Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			01/28/22 12:00	01/28/22 17:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130			01/28/22 12:00	01/28/22 17:13	1

Job ID: 890-1876-1 SDG: Eddy

Client Sample ID: BH03

Lab Sample ID: 890-1876-6

02/01/22 19:04

Matrix: Solid

Lab Sample ID: 890-1876-7

Matrix: Solid

Date Collected: 01/25/22 10:14 Date Received: 01/26/22 16:08

Sample Depth: 4

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1
nge Organic	s (DRO) (0	SC)					
•		RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
ange Organ	ics (DRO)	(GC)					
		RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 13:24	1
<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 13:24	1
<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 13:24	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
76		70 - 130			01/31/22 11:10	02/01/22 13:24	1
84		70 - 130			01/31/22 11:10	02/01/22 13:24	1
	<0.00398 nge Organic Result <50.0 ange Organic Result <50.0 <50.0 <50.0 <80.0 <80.0 %Recovery 76	Result Qualifier	Colored Colo	Note	<0.00398 U 0.00398 mg/Kg mg/Kg Result Qualifier RL OTO (GC) Unit Mag/Kg ange Organics (DRO) (GC) Result COTO (COTO) Result Mag/Kg Unit Mag/Kg D <50.0 U	Note	Normalized Nor

24.8

mg/Kg

2420 F1

Client Sample ID: BH04

Date Collected: 01/25/22 10:34

Date Received: 01/26/22 16:08

Sample Depth: 3

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/28/22 12:00	01/28/22 17:34	
1,4-Difluorobenzene (Surr)	82		70 - 130			01/28/22 12:00	01/28/22 17:34	1
Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/02/22 16:52	
Method: 8015 NM - Diesel	Range Organic	s (DRO) (G	SC)					
A I. d.	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte				- "			01/31/22 13:14	
Analyte Total TPH	68.8		49.9	mg/Kg			01/31/22 13.14	1
		ics (DRO)		mg/Kg			01/31/22 13.14	'
Total TPH	l Range Organ	ics (DRO) Qualifier		mg/kg Unit	D	Prepared	Analyzed	Dil Fac

3320

Job ID: 890-1876-1

02/01/22 19:22

SDG: Eddy

Client Sample ID: BH04

Lab Sample ID: 890-1876-7

Matrix: Solid

Date Collected: 01/25/22 10:34 Date Received: 01/26/22 16:08

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	68.8		49.9	mg/Kg		01/31/22 11:10	02/01/22 13:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			01/31/22 11:10	02/01/22 13:46	1
o-Terphenyl	103		70 - 130			01/31/22 11:10	02/01/22 13:46	1
Method: 300.0 - Anions, Ion C	hromatogra	nhy - Soli	ıble					
motifications - Amono, for c	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH04 Lab Sample ID: 890-1876-8 **Matrix: Solid**

25.0

mg/Kg

Date Collected: 01/25/22 10:40

Date Received: 01/26/22 16:08

Sample Depth: 4

Chloride

Method: 8021B - Volatile Orga	inic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/28/22 12:00	01/28/22 17:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/28/22 12:00	01/28/22 17:54	1
Method: Total BTEX - Total B	ΓEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1
Mathada 0045 NM Discal Day	0	- (DDO) (C	10)					
Method: 8015 NM - Diesel Rar Analyte	•	S (DRO) (C Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	 		Frepareu	01/31/22 13:14	1
- Iolai IFII	\30.0	U	30.0	mg/Rg			01/31/22 13.14	'
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
A It at a		,	(00)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 01/31/22 11:10	Analyzed 02/01/22 14:08	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	RL		<u>D</u>	01/31/22 11:10		1
Gasoline Range Organics (GRO)-C6-C10	<50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	01/31/22 11:10	02/01/22 14:08	Dil Fac 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	Qualifier U U U	50.0 50.0	mg/Kg	<u> </u>	01/31/22 11:10	02/01/22 14:08 02/01/22 14:08	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	Qualifier U U U	FL 50.0 50.0 50.0	mg/Kg	_ <u>D</u>	01/31/22 11:10 01/31/22 11:10 01/31/22 11:10	02/01/22 14:08 02/01/22 14:08 02/01/22 14:08	

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1
SDG: Eddy

Project/Site: RDU 11 SDG: Eddy
Client Sample ID: BH04 Lab Sample ID: 890-1876-8

Date Collected: 01/25/22 10:40

Date Received: 01/26/22 16:08

Matrix: Solid

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2610		25.0	mg/Kg			02/01/22 19:38	5	

Client Sample ID: BH05

Date Collected: 01/25/22 13:20

Lab Sample ID: 890-1876-9

Matrix: Solid

Date Collected: 01/25/22 13:20 Date Received: 01/26/22 16:08

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/28/22 12:00	01/28/22 18:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/28/22 12:00	01/28/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			01/28/22 12:00	01/28/22 18:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/28/22 12:00	01/28/22 18:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/02/22 16:52	1
_		(550) (6						

Metriou. 60 15 MM - Dieser Kari	ge Organic	s (DKO) (GC	·)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel Ra	nge Organ	ics (DRO) (G	(C)					

Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 14:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 14:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			01/31/22 11:10	02/01/22 14:30	1
o-Terphenyl	76		70 - 130			01/31/22 11:10	02/01/22 14:30	1

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solu	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		5.02	mg/Kg			02/01/22 19:56	1

Date Received: 01/26/22 16:08

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1 SDG: Eddy

Client Sample ID: BH05 Lab Sample ID: 890-1876-10 Date Collected: 01/25/22 13:25

Matrix: Solid

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/28/22 12:00	01/28/22 18:35	1
1,4-Difluorobenzene (Surr)	112		70 - 130			01/28/22 12:00	01/28/22 18:35	1
Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diese	l Range Organ	ice (DRO)	(GC)					
Analyte	•	Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			01/31/22 11:10	02/01/22 15:13	1
o-Terphenyl	76		70 - 130			01/31/22 11:10	02/01/22 15:13	1

Method: 300.0 - Anions, Ion Cl	nromatography - Solul	ole					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.6	4.98	mg/Kg			02/02/22 10:49	1

Lab Sample ID: 890-1876-11 **Client Sample ID: BH06 Matrix: Solid**

Date Collected: 01/25/22 14:10 Date Received: 01/26/22 16:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/28/22 12:00	01/28/22 18:55	1

Job ID: 890-1876-1 SDG: Eddy

Client Sample ID: BH06

Lab Sample ID: 890-1876-11

Lab Sample ID: 890-1876-12

01/28/22 12:00 01/28/22 19:16

Analyzed

Prepared

Matrix: Solid

Dil Fac

Matrix: Solid

Date Collected: 01/25/22 14:10 Date Received: 01/26/22 16:08 Sample Depth: 1

	Method: 8021B - V	olatile Organic	Compounds	(GC)	(Continued)
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Surrogate	%Recovery Qu	ualifier	Limits	Prepared Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	01/28/22 12:00 01/28/22 18:55	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

Method: 8015B	NIM Discol	Dange Ore	raniaa /		(CC)
i weliiou, ou i se	ınıvı - Diesei	Range Ord	aariics i	וטאט	1001

Analyte	Result	Qualifier	KL	Unit	D Prepared	Analyzed	DIIFac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	01/31/22 11:10	02/01/22 15:35	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	01/31/22 11:10	02/01/22 15:35	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	01/31/22 11:10	02/01/22 15:35	1
Surrements	9/ Dece very	Qualifier	Limits		Dromoved	A = 0 = 0 = 0	Dil Fac
Surrogate	%Recovery	Quaimer	Limits		Prepared	Analyzed	DII Fac
1-Chlorooctane	69	S1-	70 - 130		01/31/22 11:10	02/01/22 15:35	1
o-Terphenyl	78		70 - 130		01/31/22 11:10	02/01/22 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	601	5.03	mg/Kg			02/01/22 20:08	1

Client Sample ID: BH06

Date Collected: 01/25/22 14:28 Date Received: 01/26/22 16:08

Sample Depth: 4

1,4-Difluorobenzene (Surr)

Analyte

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 70 - 130		Prepared 04/00/00 40:00	Analyzed 01/28/22 19:16	Dil Fac
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	01/28/22 12:00	01/28/22 19:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	01/28/22 12:00	01/28/22 19:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	01/28/22 12:00	01/28/22 19:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	01/28/22 12:00	01/28/22 19:16	1
Toluene	<0.00200	U	0.00200	mg/Kg	01/28/22 12:00	01/28/22 19:16	1
Benzene	<0.00200	U	0.00200	mg/Kg	01/28/22 12:00	01/28/22 19:16	1

RL

Unit

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50 0 U	50.0	ma/Ka			01/31/22 13:14		

70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

method: 0013b Nm - bleser Kange Organics (bKO) (OO)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11

SDG: Eddy

Client Sample ID: BH06 Lab Sample ID: 890-1876-12 Date Collected: 01/25/22 14:28 Date Received: 01/26/22 16:08

Matrix: Solid

Sample Depth: 4

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	01/31/22 11:10	02/01/22 15:57	1
o-Terphenyl	86	70 - 130	01/31/22 11:10	02/01/22 15:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	464	4.98	mg/Kg			02/01/22 20:14	1				

Surrogate Summary

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				t Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1872-A-3-C MS	Matrix Spike	100	88	
890-1872-A-3-D MSD	Matrix Spike Duplicate	100	90	
890-1876-1	BH01	111	100	
890-1876-2	BH01	117	101	
890-1876-3	BH02	123	103	
890-1876-4	BH02	114	101	
890-1876-5	BH03	108	75	
890-1876-6	BH03	121	89	
890-1876-7	BH04	116	82	
890-1876-8	BH04	112	99	
890-1876-9	BH05	130	100	
890-1876-10	BH05	123	112	
890-1876-11	BH06	115	104	
890-1876-12	BH06	128	89	
LCS 880-17922/1-A	Lab Control Sample	100	101	
LCSD 880-17922/2-A	Lab Control Sample Dup	102	97	
MB 880-17922/5-A	Method Blank	111	100	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1876-1	BH01	81	90	
890-1876-2	BH01	81	92	
890-1876-3	BH02	79	90	
890-1876-4	BH02	77	86	
890-1876-5	BH03	82	93	
890-1876-6	BH03	76	84	
890-1876-7	BH04	91	103	
890-1876-8	BH04	72	86	
890-1876-9	BH05	68 S1-	76	
890-1876-10	BH05	66 S1-	76	
890-1876-11	BH06	69 S1-	78	
890-1876-12	BH06	77	86	
890-1883-A-1-C MS	Matrix Spike	69 S1-	69 S1-	
890-1883-A-1-D MSD	Matrix Spike Duplicate	69 S1-	70	
LCS 880-18143/2-A	Lab Control Sample	90	96	
LCSD 880-18143/3-A	Lab Control Sample Dup	89	93	
MB 880-18143/1-A	Method Blank	82	97	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1876-1 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17922/5-A

Lab Sample ID: LCS 880-17922/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 17974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17922

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Toluene	< 0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 11:18	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111	70 - 130	01/28/22 07:30	01/28/22 11:18	1
1,4-Difluorobenzene (Surr)	100	70 - 130	01/28/22 07:30	01/28/22 11:18	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17922

Prep Type: Total/NA

Prep Batch: 17922

Analysis Batch: 17974 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 76 70 - 130 0.100 0.07650 mg/Kg Toluene 0.100 0.07336 mg/Kg 73 70 - 130 Ethylbenzene 0.100 0.07414 mg/Kg 74 70 - 130 0.200 76 m-Xylene & p-Xylene 0.1514 mg/Kg 70 - 130 o-Xylene 0.100 0.07781 mg/Kg 78 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 17974

Lab Sample ID: LCSD 880-17922/2-A

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08267		mg/Kg		83	70 - 130	8	35
Toluene	0.100	0.08204		mg/Kg		82	70 - 130	11	35
Ethylbenzene	0.100	0.08305		mg/Kg		83	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	13	35
o-Xylene	0.100	0.08577		mg/Kg		86	70 - 130	10	35

LCSD LCSD

<0.00201 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1872-A-3-C MS

Toluene

Matrix: Solid Analysis Batch: 17974									Prep Type: Total/NA Prep Batch: 17922
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.0998	0.08204		mg/Kg		82	70 - 130

0.07890

mg/Kg

Eurofins Carlsbad

Client Sample ID: Matrix Spike

70 - 130

79

Page 16 of 33

0.0998

Job ID: 890-1876-1

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1872-A-3-C MS

Lab Sample ID: 890-1872-A-3-D MSD

Matrix: Solid

Analysis Batch: 17974

Client	Sampl	e ID:	Matrix	Spike

Prep Type: Total/NA Prep Batch: 17922

Sam	ple Sample	Spike	MS	MS				%Rec.	
Analyte Res	ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene <0.002	201 U	0.0998	0.08289		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene <0.004	102 U	0.200	0.1698		mg/Kg		85	70 - 130	
o-Xylene <0.002	201 U	0.0998	0.08492		mg/Kg		85	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 17974

Prep Type: Total/NA

Prep Batch: 17922

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD Limit 0.0998 70 - 130 Benzene <0.00201 U 0.08226 mg/Kg 82 0 35 Toluene <0.00201 U 0.0998 0.07930 79 70 - 130 35 mg/Kg 1 0.0998 Ethylbenzene <0.00201 U 0.08132 mg/Kg 81 70 - 130 2 35 m-Xylene & p-Xylene <0.00402 U 0.200 0.1645 mg/Kg 82 70 - 130 35 o-Xylene <0.00201 U 0.0998 0.08062 81 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-18143/1-A

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 18143

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/31/22 11:10	02/01/22 09:23	1
o-Terphenyl	97		70 - 130	01/31/22 11:10	02/01/22 09:23	1

Lab Sample ID: LCS 880-18143/2-A

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 18143

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	846.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1190		mg/Kg		119	70 - 130	
C10-C28)								

Job ID: 890-1876-1

SDG: Eddy

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-18143/2-A

Lab Sample ID: LCSD 880-18143/3-A

Lab Sample ID: 890-1883-A-1-C MS

Matrix: Solid

Analysis Batch: 18225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18143

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	96		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 18225

Prep Batch: 18143

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 926.5 mg/Kg 93 70 - 130 9 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1204 mg/Kg 120 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	89	70 - 130
o-Terphenyl	93	70 - 130

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

Prep Batch: 18143

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit Limits Analyte D %Rec <49.9 U 999 Gasoline Range Organics 851.8 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 970.6

C10-C28)

Matrix: Solid

Analysis Batch: 18225

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenvl	69	S1-	70 - 130

Lab Sample ID: 890-1883-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 18225

Prep Type: Total/NA Prep Batch: 18143

95

mg/Kg

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Analyte Added Result Qualifier Limits **RPD** Limit Unit %Rec Gasoline Range Organics <49.9 U 999 967.9 mg/Kg 95 70 - 130 13 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 999.6 mg/Kg 98 70 - 130 3 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	70		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11

SDG: Eddy

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18029/1-A

Lab Sample ID: LCS 880-18029/2-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 18094

MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Chloride 5.00 02/01/22 17:20 <5.00 U mg/Kg

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 18094

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 231.6 mg/Kg 93

Lab Sample ID: LCSD 880-18029/3-A Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 18094

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Chloride 250 261.3 105 90 - 110 mg/Kg

Lab Sample ID: 890-1876-6 MS

Client Sample ID: BH03 Prep Type: Soluble

Client Sample ID: BH03

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 18094

Spike MS MS %Rec. Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 2420 F1 1240 3559 90 - 110 mg/Kg

Lab Sample ID: 890-1876-6 MSD

Matrix: Solid

Analysis Batch: 18094

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 2420 F1 1240 3183 F1 62 90 - 110 20 mg/Kg 11

QC Association Summary

Job ID: 890-1876-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: Eddy

GC VOA

Prep Batch: 17922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	5035	_
890-1876-2	BH01	Total/NA	Solid	5035	
890-1876-3	BH02	Total/NA	Solid	5035	
890-1876-4	BH02	Total/NA	Solid	5035	
890-1876-5	BH03	Total/NA	Solid	5035	
890-1876-6	BH03	Total/NA	Solid	5035	
890-1876-7	BH04	Total/NA	Solid	5035	
890-1876-8	BH04	Total/NA	Solid	5035	
890-1876-9	BH05	Total/NA	Solid	5035	
890-1876-10	BH05	Total/NA	Solid	5035	
890-1876-11	BH06	Total/NA	Solid	5035	
890-1876-12	BH06	Total/NA	Solid	5035	
MB 880-17922/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17922/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17922/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1872-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1872-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8021B	17922
890-1876-2	BH01	Total/NA	Solid	8021B	17922
890-1876-3	BH02	Total/NA	Solid	8021B	17922
890-1876-4	BH02	Total/NA	Solid	8021B	17922
890-1876-5	BH03	Total/NA	Solid	8021B	17922
890-1876-6	BH03	Total/NA	Solid	8021B	17922
890-1876-7	BH04	Total/NA	Solid	8021B	17922
890-1876-8	BH04	Total/NA	Solid	8021B	17922
890-1876-9	BH05	Total/NA	Solid	8021B	17922
890-1876-10	BH05	Total/NA	Solid	8021B	17922
890-1876-11	BH06	Total/NA	Solid	8021B	17922
890-1876-12	BH06	Total/NA	Solid	8021B	17922
MB 880-17922/5-A	Method Blank	Total/NA	Solid	8021B	17922
LCS 880-17922/1-A	Lab Control Sample	Total/NA	Solid	8021B	17922
LCSD 880-17922/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17922
890-1872-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	17922
890-1872-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17922

Analysis Batch: 18419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	Total BTEX	
890-1876-2	BH01	Total/NA	Solid	Total BTEX	
890-1876-3	BH02	Total/NA	Solid	Total BTEX	
890-1876-4	BH02	Total/NA	Solid	Total BTEX	
890-1876-5	BH03	Total/NA	Solid	Total BTEX	
890-1876-6	BH03	Total/NA	Solid	Total BTEX	
890-1876-7	BH04	Total/NA	Solid	Total BTEX	
890-1876-8	BH04	Total/NA	Solid	Total BTEX	
890-1876-9	BH05	Total/NA	Solid	Total BTEX	
890-1876-10	BH05	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

GC Semi VOA

Prep Batch: 18143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015NM Prep	
890-1876-2	BH01	Total/NA	Solid	8015NM Prep	
890-1876-3	BH02	Total/NA	Solid	8015NM Prep	
890-1876-4	BH02	Total/NA	Solid	8015NM Prep	
890-1876-5	BH03	Total/NA	Solid	8015NM Prep	
890-1876-6	BH03	Total/NA	Solid	8015NM Prep	
890-1876-7	BH04	Total/NA	Solid	8015NM Prep	
890-1876-8	BH04	Total/NA	Solid	8015NM Prep	
890-1876-9	BH05	Total/NA	Solid	8015NM Prep	
890-1876-10	BH05	Total/NA	Solid	8015NM Prep	
890-1876-11	BH06	Total/NA	Solid	8015NM Prep	
890-1876-12	BH06	Total/NA	Solid	8015NM Prep	
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015 NM	
890-1876-2	BH01	Total/NA	Solid	8015 NM	
890-1876-3	BH02	Total/NA	Solid	8015 NM	
890-1876-4	BH02	Total/NA	Solid	8015 NM	
890-1876-5	BH03	Total/NA	Solid	8015 NM	
890-1876-6	BH03	Total/NA	Solid	8015 NM	
890-1876-7	BH04	Total/NA	Solid	8015 NM	
890-1876-8	BH04	Total/NA	Solid	8015 NM	
890-1876-9	BH05	Total/NA	Solid	8015 NM	
890-1876-10	BH05	Total/NA	Solid	8015 NM	
890-1876-11	BH06	Total/NA	Solid	8015 NM	
890-1876-12	BH06	Total/NA	Solid	8015 NM	

Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015B NM	18143
890-1876-2	BH01	Total/NA	Solid	8015B NM	18143
890-1876-3	BH02	Total/NA	Solid	8015B NM	18143
890-1876-4	BH02	Total/NA	Solid	8015B NM	18143
890-1876-5	BH03	Total/NA	Solid	8015B NM	18143
890-1876-6	BH03	Total/NA	Solid	8015B NM	18143
890-1876-7	BH04	Total/NA	Solid	8015B NM	18143
890-1876-8	BH04	Total/NA	Solid	8015B NM	18143
890-1876-9	BH05	Total/NA	Solid	8015B NM	18143
890-1876-10	BH05	Total/NA	Solid	8015B NM	18143
890-1876-11	BH06	Total/NA	Solid	8015B NM	18143
890-1876-12	BH06	Total/NA	Solid	8015B NM	18143
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015B NM	18143
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18143
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18143
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18143

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QC Association Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

GC Semi VOA (Continued)

Analysis Batch: 18225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18143

HPLC/IC

Leach Batch: 18029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-5	BH03	Soluble	Solid	DI Leach	<u> </u>
890-1876-6	BH03	Soluble	Solid	DI Leach	
890-1876-7	BH04	Soluble	Solid	DI Leach	
890-1876-8	BH04	Soluble	Solid	DI Leach	
890-1876-9	BH05	Soluble	Solid	DI Leach	
890-1876-10	BH05	Soluble	Solid	DI Leach	
890-1876-11	BH06	Soluble	Solid	DI Leach	
890-1876-12	BH06	Soluble	Solid	DI Leach	
MB 880-18029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1876-6 MS	BH03	Soluble	Solid	DI Leach	
890-1876-6 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 18094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-5	BH03	Soluble	Solid	300.0	18029
890-1876-6	BH03	Soluble	Solid	300.0	18029
890-1876-7	BH04	Soluble	Solid	300.0	18029
890-1876-8	BH04	Soluble	Solid	300.0	18029
890-1876-9	BH05	Soluble	Solid	300.0	18029
890-1876-10	BH05	Soluble	Solid	300.0	18029
890-1876-11	BH06	Soluble	Solid	300.0	18029
890-1876-12	BH06	Soluble	Solid	300.0	18029
MB 880-18029/1-A	Method Blank	Soluble	Solid	300.0	18029
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	300.0	18029
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18029
890-1876-6 MS	BH03	Soluble	Solid	300.0	18029
890-1876-6 MSD	BH03	Soluble	Solid	300.0	18029

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH01

Lab Sample ID: 890-1876-1

Matrix: Solid

Date Collected: 01/25/22 09:10 Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 14:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 11:34	AJ	XEN MID

Lab Sample ID: 890-1876-2

Matrix: Solid

Date Collected: 01/25/22 09:24 Date Received: 01/26/22 16:08

Client Sample ID: BH01

Dil Batch Batch Batch Initial Final Prepared **Prep Type** Method Number or Analyzed Type Run **Factor** Amount **Amount** Analyst Lab Total/NA Prep 5035 5 mL 17922 01/28/22 12:00 KL XEN MID 4.99 g Total/NA 8021B 17974 01/28/22 14:48 KL XEN MID Analysis 5 mL 5 mL 1 Total/NA Total BTEX 18419 02/02/22 16:52 AJ XEN MID Analysis 1 Total/NA Analysis 8015 NM 18170 01/31/22 13:14 AJ XEN MID 1 Total/NA Prep 8015NM Prep 10.03 g 10 mL 18143 01/31/22 11:10 DM XEN MID Total/NA 02/01/22 11:56 AJ Analysis 8015B NM 1 18225 XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1876-3

Date Collected: 01/25/22 09:32 Matrix: Solid Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 12:18	AJ	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1876-4 Date Collected: 01/25/22 09:50 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 12:40	AJ	XEN MID

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH03

Date Received: 01/26/22 16:08

Client: WSP USA Inc.

Project/Site: RDU 11

Lab Sample ID: 890-1876-5 Date Collected: 01/25/22 10:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 18:58	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1876-6

Date Collected: 01/25/22 10:14 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:04	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1876-7 Date Collected: 01/25/22 10:34 Matrix: Solid

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:22	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1876-8 Date Collected: 01/25/22 10:40 Matrix: Solid

Date Received: 01/26/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID

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Page 24 of 33

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID: 890-1876-8

Matrix: Solid

Date Collected: 01/25/22 10:40 Date Received: 01/26/22 16:08

Client Sample ID: BH04

Client: WSP USA Inc.

Project/Site: RDU 11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:38	CH	XEN MID

Lab Sample ID: 890-1876-9 **Client Sample ID: BH05** Date Collected: 01/25/22 13:20 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	18029	01/28/22 10:48	СН	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 19:56	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1876-10 Date Collected: 01/25/22 13:25 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/02/22 10:49	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-1876-11 Date Collected: 01/25/22 14:10

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	18143 18225	01/31/22 11:10 02/01/22 15:35	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH06

Date Collected: 01/25/22 14:10 Date Received: 01/26/22 16:08

Lab Sample ID: 890-1876-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:08	CH	XEN MID

Lab Sample ID: 890-1876-12

Matrix: Solid

Date Collected: 01/25/22 14:28 Date Received: 01/26/22 16:08

Client Sample ID: BH06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 19:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:14	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Job ID: 890-1876-1 Client: WSP USA Inc. Project/Site: RDU 11

SDG: Eddy

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pi	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analyte the agency does not		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1876-1	BH01	Solid	01/25/22 09:10	01/26/22 16:08	1
890-1876-2	BH01	Solid	01/25/22 09:24	01/26/22 16:08	4
890-1876-3	BH02	Solid	01/25/22 09:32	01/26/22 16:08	1
890-1876-4	BH02	Solid	01/25/22 09:50	01/26/22 16:08	4
890-1876-5	BH03	Solid	01/25/22 10:08	01/26/22 16:08	3
890-1876-6	BH03	Solid	01/25/22 10:14	01/26/22 16:08	4
890-1876-7	BH04	Solid	01/25/22 10:34	01/26/22 16:08	3
890-1876-8	BH04	Solid	01/25/22 10:40	01/26/22 16:08	4
890-1876-9	BH05	Solid	01/25/22 13:20	01/26/22 16:08	2
890-1876-10	BH05	Solid	01/25/22 13:25	01/26/22 16:08	4
890-1876-11	BH06	Solid	01/25/22 14:10	01/26/22 16:08	1
890-1876-12	BH06	Solid	01/25/22 14:28	01/26/22 16:08	4

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Project Manager:

Company Name:

A SHEE

State of Project:

UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐

Superfund [

Work Order Comments

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

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Name: ANU AND Email: ANDC: BTELL WSD: OM Deliverables: EDD ANALYSIS REQUEST	etate+NaOH: Zn		C	10	(1.2 (1.0	perature Reading:	N/A	Yes	Sample Custody Seals:
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Name: ANN AL PROUNT Pres.	O 4: NABIS	NaHSC		3		1-Nmou	mometer ID:			Samples Received Intact:
Name: ANN 11 Cocation: Chord	4: HP	H ₃ PO ₄		ø\$			No		Temp	SAMPLE RECEIPT
Name:		H ₂ SO ₄ :		1.5		ved by 4:30pm	the lab, if recei	60 031	314033	PO #:
Name: 1003366.63) Effourine Rush Code Sign State And Code Code Code Code Code Code Code Cod		HCL: H))	18	lay received by	TAT starts the c	Ronch	Mercy	Sampler's Name:
Name: 31423366,63) Effourine Rush Rode ANALYSIS REQUEST		Cool: C		(qp.))		Due Date:		6007	Project Location:
Name: ANA 11 Turn Around City, State Alley & WSD (OM) Deliverables: EDD AINALYSIS REQUEST		None:			Pres.		Routine	(80.03)	314033	Project Number:
ate ZIP: MINIMA IX 1970S Email: ANNO. BYELL & WSD. (OM) Deliverables: EDD AI	reservative Codes	P	ANALYSIS REQUEST		-		Turn A	11	NOB	Project Name:
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	L LEAVE L	Level Case C	and or			City, State ZIP:	705	36. XI.	PUPINIUM	City, State ZIP:

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co CL

service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses a

tted to Eurofins Xenco, but not analyzed. These t

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

12012 1.cd

Receined by: (Signature)

ite: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontracto

urofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample subm

Relinquished by: (Signature)

13 14

	eurofins
Xenco	Environment Testing

Phone:

281-702-2329

Email:

Anna

bjers

was com

City, State ZIP:

MPRIN

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50tht

City, State ZIP

company Name:

(if different)

\ddress:

Project Name:

ROU 1

31403360.031

Due Date:

Routine

Rush

Code

Turn Around

TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT

Samples Received Intact:

Sample Custody Seals: Cooler Custody Seals:

Yes No N/A

Velaperature Reading

orrection Factor:

Yes

BHO 6 8HO6

128/221 1/25/2022 Sampled

1428

E

4141

4

Grab Comp

Sampled

Depth

Grab/

RIEX

Chloride

of

Sample Identification

Matrix

Date

Time

Sampler's Name:

Mercy 4001

403360.031

Temp Blank: Yes No

Yes No

Wet Ice:

Yes

8

Parameters

EPA 8015 MOD)

(EPA 300.0)

(EPA 8021B)

Thermometer ID:

roject Location: roject Number: Project Manager:

ompany Name:

MOD v daso

Herrandez

NA 450.

Street

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com

Page

	Work Order Comments
	Program: UST/PST PRP Brownfields RRC Superfund
	Reporting: Level III Level III PST/UST TRRP Level IV
	Deliverables: EDD ADaPT Other:
ANALYSIS REQUEST	EST Preservative Codes
	None: NO DI Water: H ₂ O
	Cool: Cool MeOH: Me
	H ₂ SO ₄ : H ₂ NaOH: Na
	H₃PO₄; HP
	NaHSO .: NABIS
	Na ₂ S ₂ O ₃ : NaSO ₃
	Zn Acetate+NaOH: Zn
	NaOH+Ascorbic Acid: SAPC
	Sample Comments
o Cu Fe Pb Mg	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
b Mn ۸	Hg:
 It assigns standard terms and conditions e due to circumstances beyond the control 	s and conditions and the control
rms will be enforced unless previously negotiated.	previously negotiated.

2/3/2022

Login Sample Receipt Checklist

Job Number: 890-1876-1

SDG Number: Eddy

Login Number: 1876 List Source: Eurofins Carlsbad

List Number: 1

Client: WSP USA Inc.

Creator: Olivas, Nathaniel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1876-1

SDG Number: Eddy

List Source: Eurofins Midland
List Number: 2
List Creation: 01/28/22 12:32 PM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

4

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2003-1

Laboratory Sample Delivery Group: 31403360.03

Client Project/Site: RDU 11

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 3/3/2022 3:57:39 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 3/20/2024 8:43:50 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.
Project/Site: RDU 11
Laboratory Job ID: 890-2003-1
SDG: 31403360.03

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	13
QC Sample Results	15
QC Association Summary	22
Lab Chronicle	26
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	36

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Qualifiers

GC V	OA
Qualif	ier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualitier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Ciossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

LDL	Latinated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Conf

MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

ND	Not Detected at the reporting limit (or MDL or EDL if shown)
שוו	INOU Detected at the reporting little (or MDL or LDL if Showin)

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

PRES	Presumptive
Ω C	Quality Control

RER	Relative Error Ratio (Radiochemistry)

RL	Reporting Limit or Requested Limit (Radiochemistry)
----	---

RPD	Relative Percent Difference,	a measure of the relative	difference between two points
-----	------------------------------	---------------------------	-------------------------------

TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Job ID: 890-2003-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2003-1

Receipt

The samples were received on 2/23/2022 11:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (890-2009-A-3-I), (890-2009-A-3-G MS) and (890-2009-A-3-H MSD) at 25.0, 25.0 and 25.0. Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20605 and analytical batch 880-20710 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH10 (890-2003-7), (LCS 880-20253/2-A) and (880-11670-A-1-D MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07

Date Collected: 02/18/22 10:45 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/02/22 16:00	03/03/22 02:32	1
1,4-Difluorobenzene (Surr)	91		70 - 130			03/02/22 16:00	03/03/22 02:32	1
- Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range								
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
_				Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/25/22 15:07	
Analyte Total TPH	Result 81.7	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 81.7 ge Organics (Di	Qualifier RO) (GC)	50.0	mg/Kg			02/25/22 15:07	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 81.7 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0	mg/Kg	<u>D</u>	Prepared	02/25/22 15:07 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 81.7 ge Organics (Di	Qualifier RO) (GC) Qualifier	50.0	mg/Kg			02/25/22 15:07	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 81.7 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		Prepared	02/25/22 15:07 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 81.7 ge Organics (Dige Result < 50.0	Qualifier RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 03:14	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 81.7 ge Organics (Dige Result < 50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 03:14	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 03:14 02/25/22 03:14	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 03:14 02/25/22 03:14	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared	02/25/22 15:07 Analyzed 02/25/22 03:14 02/25/22 03:14 02/25/22 03:14 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 03:14 02/25/22 03:14 02/25/22 03:14 Analyzed 02/25/22 03:14	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 03:14 02/25/22 03:14 02/25/22 03:14 Analyzed 02/25/22 03:14	Dil Fac

Client Sample ID: BH07 Lab Sample ID: 890-2003-2 Matrix: Solid

Date Collected: 02/18/22 10:55

Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/02/22 16:00	03/03/22 02:59	
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			03/02/22 16:00	03/03/22 02:59	

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Lab Sample ID: 890-2003-1

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07 Lab Sample ID: 890-2003-2

Date Collected: 02/18/22 10:55 Matrix: Solid Date Received: 02/23/22 11:26

Sample Depth: 4

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130			03/02/22 16:00	03/03/22 02:59	1
Method: Total BTEX - Total BTE	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/25/22 15:07	1
: Method: 8015B NM - Diesel Ranç	ge Organics (D		49.9 RL	mg/Kg Unit	D	Prepared	02/25/22 15:07 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC)			<u>D</u>	Prepared 02/24/22 15:51		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	<mark>Unit</mark> mg/Kg	<u> </u>	02/24/22 15:51	Analyzed 02/25/22 03:35	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	02/24/22 15:51	Analyzed 02/25/22 03:35 02/25/22 03:35	1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <49.9 <49.9	Qualifier U	RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u> </u>	02/24/22 15:51 02/24/22 15:51 02/24/22 15:51	Analyzed 02/25/22 03:35 02/25/22 03:35 02/25/22 03:35	1 Dil Fac 1 1 Dil Fac 1 1 Dil Fac 1 1

Client Sample ID: BH08 Lab Sample ID: 890-2003-3

RL

5.00

Unit

mg/Kg

Result Qualifier

510

Date Collected: 02/18/22 11:00 Date Received: 02/23/22 11:26

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/02/22 16:00	03/03/22 03:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/02/22 16:00	03/03/22 03:25	1
Method: Total BTEX - Total B1	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	108		50.0	mg/Kg			02/25/22 15:07	

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Dil Fac

Matrix: Solid

Analyzed

02/27/22 14:33

Prepared

D

3/3/2022

Matrix: Solid

Lab Sample ID: 890-2003-3

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH08

Date Collected: 02/18/22 11:00 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
Diesel Range Organics (Over C10-C28)	108		50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/24/22 15:51	02/25/22 03:55	1
o-Terphenyl	74		70 - 130			02/24/22 15:51	02/25/22 03:55	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			25.1	mg/Kg			02/27/22 14:42	5

Lab Sample ID: 890-2003-4 **Client Sample ID: BH08** Date Collected: 02/18/22 11:10 Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130			03/02/22 16:00	03/03/22 03:52	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/02/22 16:00	03/03/22 03:52	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/24/22 15:51	02/25/22 04:16	1

Job ID: 890-2003-1 SDG: 31403360.03

Client Sample ID: BH08

Client: WSP USA Inc.

Project/Site: RDU 11

Date Received: 02/23/22 11:26

Sample Depth: 4

Lab Sample ID: 890-2003-4 Date Collected: 02/18/22 11:10 Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed 4.98 02/27/22 14:51 Chloride 12.9 mg/Kg

Client Sample ID: BH09 Lab Sample ID: 890-2003-5 **Matrix: Solid**

Date Collected: 02/18/22 12:30 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	•
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 22:15	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/01/22 08:30	03/01/22 22:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130			03/01/22 08:30	03/01/22 22:15	1
· Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	o) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			02/24/22 15:51	02/25/22 04:57	1
o-Terphenyl	83		70 - 130			02/24/22 15:51	02/25/22 04:57	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		5.05	mg/Kg			02/27/22 14:59	1

Matrix: Solid

Lab Sample ID: 890-2003-6

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH09

Date Collected: 02/18/22 12:45 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/01/22 08:30	03/01/22 22:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130			03/01/22 08:30	03/01/22 22:36	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range			DI.	I I mi A	Б	Drawarad	Analysis	Dil Foo
_					_	_		
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/25/22 15:07	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC)	50.0	mg/Kg		<u> </u>	02/25/22 15:07	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg	<u>D</u>	Prepared	02/25/22 15:07 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg		<u> </u>	02/25/22 15:07	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	02/25/22 15:07 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17 02/25/22 05:17 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17 02/25/22 05:17 Analyzed 02/25/22 05:17	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17 02/25/22 05:17 Analyzed 02/25/22 05:17	Dil Fac

Client Sample ID: BH10

Date Collected: 02/18/22 13:05 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 22:56	

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Matrix: Solid

Lab Sample ID: 890-2003-7

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH10

Lab Sample ID: 890-2003-7 Date Collected: 02/18/22 13:05 Matrix: Solid

Date Received: 02/23/22 11:26 Sample Depth: 0.5

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	03/01/22 08:30	03/01/22 22:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualific		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			02/28/22 10:23	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)
Mctilod. 00 to Mili - Dieser Range Organies (Dito) (

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1660		250	mg/Kg			02/25/22 15:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Diesel Range Organics (Over C10-C28)	1660		250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Oll Range Organics (Over C28-C36)	<250	U	250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Survey mate	0/ Danassams	Ovalifian	Limita			Duamanad	A	Dil 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130	02/24/22 15:51	02/25/22 05:38	5
o-Terphenyl	81		70 - 130	02/24/22 15:51	02/25/22 05:38	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		4.99	mg/Kg			02/27/22 15:35	1

Client Sample ID: BH10 Lab Sample ID: 890-2003-8 **Matrix: Solid**

Date Collected: 02/18/22 13:20 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 23:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/01/22 08:30	03/01/22 23:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/25/22 15:07	1

Matrix: Solid

Lab Sample ID: 890-2003-8

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH10

Date Collected: 02/18/22 13:20 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			02/24/22 15:51	02/25/22 04:36	1
o-Terphenyl	89		70 - 130			02/24/22 15:51	02/25/22 04:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18000		253	mg/Kg			02/27/22 16:01	50

Client Sample ID: BH11 Lab Sample ID: 890-2003-9 Matrix: Solid

Date Collected: 02/18/22 13:30 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/01/22 08:30	03/01/22 23:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/01/22 08:30	03/01/22 23:37	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/25/22 08:25	02/25/22 17:05	1
							02/25/22 17:05	

Matrix: Solid

Lab Sample ID: 890-2003-9

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH11

Date Collected: 02/18/22 13:30 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.95	mg/Kg			02/27/22 16:10	1

Client Sample ID: BH11

Date Collected: 02/18/22 13:45

Lab Sample ID: 890-2003-10

Matrix: Solid

Date Collected: 02/18/22 13:45 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/22 08:30	03/01/22 23:57	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 23:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/01/22 08:30	03/01/22 23:57	1
· Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/25/22 15:07	Dil Fac
			33.3	9.1.9			02/20/22 10:01	
Method: 8015B NM - Diesel Rang					_			5
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			02/25/22 08:25	02/25/22 17:25	1
o-Terphenyl	116		70 - 130			02/25/22 08:25	02/25/22 17:25	1
Method: 300.0 - Anions, Ion Chro								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220		25.3	mg/Kg			02/27/22 16:19	5

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

t Sample ID x Spike x Spike Duplicate	98 94 88 78 88 59 S1- 111 104	70-130) 106 98 91 94 95 92 97	
x Spike x Spike Duplicate ,	98 94 88 78 88 59 S1- 111 104	106 98 91 94 95 92	
x Spike Duplicate	94 88 78 88 59 S1- 111 104	98 91 94 95 92 97	
, ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	88 78 88 59 S1- 111 104	91 94 95 92	
) }	78 88 59 S1- 111 104	94 95 92 97	
3 3 ,	88 59 S1- 111 104	95 92 97	
} }	59 S1- 111 104	92 97	
· · · · · · · · · · · · · · · · · · ·	111 104	97	
)	104		
		03	
)		33	
	105	102	
)	105	101	
	100	90	
	105	103	
x Spike	72	73	
x Spike Duplicate	122	75	
od Blank	51 S1-	99	
Control Sample	98	101	
Control Sample	101	124	
Control Sample Dup	101	103	
Control Sample Dup	97	102	
od Blank	97	98	
od Blank	49 S1-	101	
	ontrol Sample ontrol Sample Dup ontrol Sample Dup d Blank	ontrol Sample 101 ontrol Sample Dup 101 ontrol Sample Dup 97 d Blank 97	ontrol Sample 101 124 ontrol Sample Dup 101 103 ontrol Sample Dup 97 102 d Blank 97 98

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1001	OTDU	Percent Surrogate Recovery (Acceptance Limits)
	011 / 0 / 1 / 1	1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11670-A-1-D MS	Matrix Spike	69 S1-	73	
880-11670-A-1-E MSD	Matrix Spike Duplicate	82	77	
890-2003-1	BH07	88	86	
890-2003-2	BH07	96	98	
890-2003-3	BH08	76	74	
890-2003-4	BH08	98	100	
890-2003-5	BH09	81	83	
890-2003-6	BH09	83	85	
890-2003-7	BH10	54 S1-	81	
890-2003-8	BH10	84	89	
890-2003-9	BH11	89	85	
890-2003-10	BH11	113	116	
890-2004-A-1-E MS	Matrix Spike	94	81	
890-2004-A-1-F MSD	Matrix Spike Duplicate	92	80	
LCS 880-20293/2-A	Lab Control Sample	80	81	
LCSD 880-20293/3-A	Lab Control Sample Dup	103	104	
MB 880-20293/1-A	Method Blank	105	115	

Surrogate Summary

Client: WSP USA Inc. Project/Site: RDU 11

ect/Site: RDU 11

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2003-1 SDG: 31403360.03

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (A	cceptance Limits)
		1CO2	OTPH2		
ab Sample ID	Client Sample ID	(70-130)	(70-130)		
.CS 880-20253/2-A	Lab Control Sample	132 S1+	136 S1+		
LCSD 880-20253/3-A	Lab Control Sample Dup	113	128		
MB 880-20253/1-A	Method Blank	97	102		
Surrogate Legend					
1CO = 1-Chlorooctane					
OTPH = o-Terphenyl					

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Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20526/5-A

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20526

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 13:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/01/22 08:30	03/01/22 13:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/01/22 08:30	03/01/22 13:39	1

Lab Sample ID: LCS 880-20526/1-A

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20526

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09731		mg/Kg		97	70 - 130	
Toluene	0.100	0.09402		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09440		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.2156		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	ıalifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-20526/2-A

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 20526

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1030 mg/Kg 103 70 - 130 6 35 Toluene 0.100 0.09946 mg/Kg 99 70 - 130 6 35 Ethylbenzene 0.100 0.1007 mg/Kg 101 70 - 130 6 35 0.200 0.2324 m-Xylene & p-Xylene mg/Kg 116 70 - 130 35 0.100 0.1148 o-Xylene mg/Kg 115 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2009-A-3-G MS

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 20526

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.0498	U F1	0.101	0.8104	F1	mg/Kg	_	804	70 - 130	
Toluene	<0.0498	U F1 F2	0.101	1.626	F1	mg/Kg		1613	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2009-A-3-G MS

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20526

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2.379 F1 Ethylbenzene <0.0498 U F1 F2 0.101 2360 70 - 130 mg/Kg m-Xylene & p-Xylene <0.0996 UF1F2 0.202 9.133 F1 mg/Kg 4530 70 - 130 0.101 o-Xylene <0.0498 UF1F2 4.163 F1 mg/Kg 4130 70 - 130

MS MS

Surrogate	%Recovery 0	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	72		70 - 130		
1,4-Difluorobenzene (Surr)	73		70 - 130		

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20526 RPD

Lab Sample ID: 890-2009-A-3-H MSD **Matrix: Solid**

Analysis Batch: 20577

Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0996 0.9509 F1 Benzene <0.0498 UF1 mg/Kg 955 70 - 130 16 35 Toluene 0.0996 2515 <0.0498 UF1F2 2.505 F1 F2 mg/Kg 70 - 130 43 35 Ethylbenzene <0.0498 U F1 F2 0.0996 3.505 F1 F2 3519 70 - 130 38 35 mg/Kg <0.0996 UF1F2 0.199 15.01 F1 F2 7534 70 - 130 49 35 m-Xylene & p-Xylene mq/Kq 0.0996 <0.0498 U F1 F2 7.358 F1 F2 7387 70 - 130 55 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: MB 880-20605/5-A

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20605

ı		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg	_	03/02/22 16:00	03/02/22 20:20	1
	Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
	Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/02/22 20:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	49	S1-	70 - 130	03/02/22 16:00	03/02/22 20:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/02/22 16:00	03/02/22 20:20	1

Lab Sample ID: LCS 880-20605/1-A

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 20605

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1224		mg/Kg		122	70 - 130	
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20605

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-20605/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 20710** Prep Batch: 20605 LCS LCS

Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D o-Xylene 0.100 0.1072 107 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 101 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 124

Lab Sample ID: LCSD 880-20605/2-A

Matrix: Solid

Analysis Batch: 20710

Prep Batch: 20605 Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.1058 mg/Kg 106 70 - 130 15 35 Toluene 0.100 0.09560 mg/Kg 96 70 - 130 9 35 Ethylbenzene 0.100 0.1004 mg/Kg 100 70 - 130 6 35 35 m-Xylene & p-Xylene 0.200 0.2080 mg/Kg 104 70 - 130 6 o-Xylene 0.100 0.09996 100 70 - 130 35 mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 880-11907-A-1-B MS

Matrix: Solid

Analysis Batch: 20710

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.101	0.07733		mg/Kg		77	70 - 130
Toluene	<0.00200	U F1	0.101	0.06553	F1	mg/Kg		65	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.06954	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1418		mg/Kg		70	70 - 130
o-Xylene	<0.00200	U	0.101	0.07034		mg/Kg		70	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 106

Lab Sample ID: 880-11907-A-1-C MSD

Matrix: Solid

										J P C C	
Analysis Batch: 20710									Prep	Batch:	20605
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07748		mg/Kg		77	70 - 130	0	35
Toluene	<0.00200	U F1	0.100	0.06554	F1	mg/Kg		65	70 - 130	0	35
Ethylbenzene	<0.00200	U F1	0.100	0.07098		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1454		mg/Kg		72	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07552		mg/Kg		75	70 - 130	7	35

Eurofins Carlsbad

Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-11907-A-1-C MSD

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20605

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: CB MB Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 20710

мв мв

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			03/02/22 17:14	1
Toluene	<0.00200	U	0.00200	mg/Kg			03/02/22 17:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			03/02/22 17:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			03/02/22 17:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			03/02/22 17:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			03/02/22 17:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130		03/02/22 17:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130		03/02/22 17:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20253/1-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 20253

Analyte Res	ult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <50	0.0	U	50.0	mg/Kg	_	02/24/22 15:51	02/24/22 21:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over <50	0.0	U	50.0	mg/Kg		02/24/22 15:51	02/24/22 21:01	1
C10-C28)								
Oll Range Organics (Over C28-C36) <50	0.0	U	50.0	mg/Kg		02/24/22 15:51	02/24/22 21:01	1
	Analyte Res Gasoline Range Organics <50 (GRO)-C6-C10 Diesel Range Organics (Over <50 C10-C28)	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28)	Analyte Result Qualifier Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Gasoline Range Organics	Analyte Result Qualifier RL Unit Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Gasoline Range Organics (GRO)-C6-C10 <50.0	Analyte Result Qualifier RL Unit D Prepared Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	02/24/22 15:51	02/24/22 21:01	1
o-Terphenyl	102		70 - 130	02/24/22 15:51	02/24/22 21:01	1

Lab Sample ID: LCS 880-20253/2-A

Matrix: Solid

Analysis Batch: 20195

Client Samp	ole ID:	Lab	Control	Sample
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Prep Type: Total/NA Prep Batch: 20253

	Spike	LUS	LUS				70Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	808.4		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1182		mg/Kg		118	70 - 130	

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

C10-C28)

C10-C28)

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCSD 880-20253/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 20195** Prep Batch: 20253 Spike LCSD LCSD RPD Added RPD Limit Analyte Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 876.2 mg/Kg 88 70 - 130 8 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1084 108 70 - 130 mg/Kg 9 20

LCSD LCSD %Recovery Qualifier Limits Surrogate

70 - 130 1-Chlorooctane 113 o-Terphenyl 128 70 - 130

Lab Sample ID: 880-11670-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 20195** Prep Batch: 20253

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1000 Gasoline Range Organics <50.0 U 1187 mg/Kg 114 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 1120 mg/Kg 112 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 69 S1-70 - 130 o-Terphenyl 73 70 - 130

Lab Sample ID: 880-11670-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20195 Prep Batch: 20253 Sample Sample Spike MSD MSD %Rec. RPD Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD <50.0 U 998 1007 20 Gasoline Range Organics 97 70 - 130 16 mg/Kg (GRO)-C6-C10 <50.0 U 998 1187 mg/Kg 119 20 Diesel Range Organics (Over 70 - 130 6

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 82 70 - 130 77 70 - 130 o-Terphenyl

Lab Sample ID: MB 880-20293/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20308 Prep Batch: 20293 MB MB

Analyte Res	ult Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <5	0.0 U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
(GRO)-C6-C10							
Diesel Range Organics (Over <5	0.0 U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
C10-C28)							
OII Range Organics (Over C28-C36) <5).0 U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20293

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/25/22 08:25	02/25/22 12:36	1
o-Terphenyl	115		70 - 130	02/25/22 08:25	02/25/22 12:36	1

Lab Sample ID: LCS 880-20293/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 20308

Prep Type: Total/NA Prep Batch: 20293

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 797.2 80 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 928.5 mg/Kg 93 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 20308

Matrix: Solid

Lab Sample ID: LCSD 880-20293/3-A

Prep Batch: 20293 Spike LCSD LCSD

RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit Gasoline Range Organics 1000 821.5 mg/Kg 82 70 - 130 3 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1019 mg/Kg 102 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	104	70 - 130

Lab Sample ID: 890-2004-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 20308 Prep Batch: 20293

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U	1000	1240		mg/Kg		124	70 - 130		_
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	1000	1269		mg/Kg		127	70 - 130		
040,000)											

C10-C28)

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	81	70 - 130

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

80

Lab Sample ID: 890-2004-A-Matrix: Solid Analysis Batch: 20308	-1-F MSD					CI	ient Sa	ample II		oike Dup Type: Tot Batch:∶	tal/NA
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1205		mg/Kg		121	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1237		mg/Kg		124	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 130								

70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-20217/3-A

Lab Sample ID: 890-2003-5 MS

Matrix: Solid

o-Terphenyl

Lab Sample ID: MB 880-20217/1-A	•						ample ID: Metho	d Blank
Matrix: Solid							Prep Type:	Soluble
Analysis Batch: 20409								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/27/22 12:29	1

Lab Sample ID: LCS 880-20217/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Soluble
Analysis Batch: 20409			
	Spike	LCS LCS	%Rec.

Analyte Added Chloride Result 250 Qualifier 252.6 Unit mg/Kg D wind mg/Kg MRec Limits 101		Opino						701100.
Chloride 250 252.6 mg/Kg 101 90 - 110	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
	Chloride	 250	252.6		mg/Kg		101	90 - 110

Analysis Batch: 20409									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	252.6		mg/Kg		101	90 - 110	0	20

Matrix: Solid									Prep	Type: Soluble
Analysis Batch: 20409										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	365		253	614.6		mg/Kg		99	90 - 110	

Lab Sample ID: 890-2003-5 MSD Matrix: Solid Analysis Batch: 20409									Client Sar Prep	mple ID: Type: So	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	365		253	611.6		mg/Kg		97	90 - 110	1	20

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Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH09

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

GC VOA

Analysis Batch: 20453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	Total BTEX	
890-2003-2	BH07	Total/NA	Solid	Total BTEX	
890-2003-3	BH08	Total/NA	Solid	Total BTEX	
890-2003-4	BH08	Total/NA	Solid	Total BTEX	
890-2003-5	ВН09	Total/NA	Solid	Total BTEX	
890-2003-6	ВН09	Total/NA	Solid	Total BTEX	
890-2003-7	BH10	Total/NA	Solid	Total BTEX	
890-2003-8	BH10	Total/NA	Solid	Total BTEX	
890-2003-9	BH11	Total/NA	Solid	Total BTEX	
890-2003-10	BH11	Total/NA	Solid	Total BTEX	

Prep Batch: 20526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-5	BH09	Total/NA	Solid	5035	
890-2003-6	BH09	Total/NA	Solid	5035	
890-2003-7	BH10	Total/NA	Solid	5035	
890-2003-8	BH10	Total/NA	Solid	5035	
890-2003-9	BH11	Total/NA	Solid	5035	
890-2003-10	BH11	Total/NA	Solid	5035	
MB 880-20526/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20526/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20526/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2009-A-3-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2009-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-5	BH09	Total/NA	Solid	8021B	20526
890-2003-6	BH09	Total/NA	Solid	8021B	20526
890-2003-7	BH10	Total/NA	Solid	8021B	20526
890-2003-8	BH10	Total/NA	Solid	8021B	20526
890-2003-9	BH11	Total/NA	Solid	8021B	20526
890-2003-10	BH11	Total/NA	Solid	8021B	20526
MB 880-20526/5-A	Method Blank	Total/NA	Solid	8021B	20526
LCS 880-20526/1-A	Lab Control Sample	Total/NA	Solid	8021B	20526
LCSD 880-20526/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20526
890-2009-A-3-G MS	Matrix Spike	Total/NA	Solid	8021B	20526
890-2009-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20526

Prep Batch: 20605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2003-1	BH07	Total/NA	Solid	5035	
890-2003-2	BH07	Total/NA	Solid	5035	
890-2003-3	BH08	Total/NA	Solid	5035	
890-2003-4	BH08	Total/NA	Solid	5035	
MB 880-20605/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20605/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20605/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11907-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-11907-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

GC VOA

Analysis Batch: 20710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8021B	20605
890-2003-2	BH07	Total/NA	Solid	8021B	20605
890-2003-3	BH08	Total/NA	Solid	8021B	20605
890-2003-4	BH08	Total/NA	Solid	8021B	20605
CB MB	Method Blank	Total/NA	Solid	8021B	
MB 880-20605/5-A	Method Blank	Total/NA	Solid	8021B	20605
LCS 880-20605/1-A	Lab Control Sample	Total/NA	Solid	8021B	20605
LCSD 880-20605/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20605
880-11907-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	20605
880-11907-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20605

GC Semi VOA

Analysis Batch: 20195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015B NM	20253
890-2003-2	BH07	Total/NA	Solid	8015B NM	20253
890-2003-3	BH08	Total/NA	Solid	8015B NM	20253
890-2003-4	BH08	Total/NA	Solid	8015B NM	20253
890-2003-5	BH09	Total/NA	Solid	8015B NM	20253
890-2003-6	BH09	Total/NA	Solid	8015B NM	20253
890-2003-7	BH10	Total/NA	Solid	8015B NM	20253
890-2003-8	BH10	Total/NA	Solid	8015B NM	20253
MB 880-20253/1-A	Method Blank	Total/NA	Solid	8015B NM	20253
LCS 880-20253/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20253
LCSD 880-20253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20253
880-11670-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	20253
880-11670-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20253

Prep Batch: 20253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015NM Prep	
890-2003-2	BH07	Total/NA	Solid	8015NM Prep	
890-2003-3	BH08	Total/NA	Solid	8015NM Prep	
890-2003-4	BH08	Total/NA	Solid	8015NM Prep	
890-2003-5	BH09	Total/NA	Solid	8015NM Prep	
890-2003-6	BH09	Total/NA	Solid	8015NM Prep	
890-2003-7	BH10	Total/NA	Solid	8015NM Prep	
890-2003-8	BH10	Total/NA	Solid	8015NM Prep	
MB 880-20253/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20253/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11670-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11670-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 20293

Lab S	Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2	003-9	BH11	Total/NA	Solid	8015NM Prep
890-2	003-10	BH11	Total/NA	Solid	8015NM Prep
MB 88	80-20293/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 8	380-20293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep

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 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

GC Semi VOA (Continued)

Prep Batch: 20293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-20293/3	-A Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2004-A-1-E M	S Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2004-A-1-F MS	SD Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-9	BH11	Total/NA	Solid	8015B NM	20293
890-2003-10	BH11	Total/NA	Solid	8015B NM	20293
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015B NM	20293
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20293
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20293
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	20293
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20293

Analysis Batch: 20341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015 NM	_
890-2003-2	BH07	Total/NA	Solid	8015 NM	
890-2003-3	BH08	Total/NA	Solid	8015 NM	
890-2003-4	BH08	Total/NA	Solid	8015 NM	
890-2003-5	BH09	Total/NA	Solid	8015 NM	
890-2003-6	BH09	Total/NA	Solid	8015 NM	
890-2003-7	BH10	Total/NA	Solid	8015 NM	
890-2003-8	BH10	Total/NA	Solid	8015 NM	
890-2003-9	BH11	Total/NA	Solid	8015 NM	
890-2003-10	BH11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Soluble	Solid	DI Leach	
890-2003-2	BH07	Soluble	Solid	DI Leach	
890-2003-3	BH08	Soluble	Solid	DI Leach	
890-2003-4	BH08	Soluble	Solid	DI Leach	
890-2003-5	BH09	Soluble	Solid	DI Leach	
890-2003-6	BH09	Soluble	Solid	DI Leach	
890-2003-7	BH10	Soluble	Solid	DI Leach	
890-2003-8	BH10	Soluble	Solid	DI Leach	
890-2003-9	BH11	Soluble	Solid	DI Leach	
890-2003-10	BH11	Soluble	Solid	DI Leach	
MB 880-20217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2003-5 MS	BH09	Soluble	Solid	DI Leach	
890-2003-5 MSD	BH09	Soluble	Solid	DI Leach	

Analysis Batch: 20409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Soluble	Solid	300.0	20217
890-2003-2	BH07	Soluble	Solid	300.0	20217

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Page 24 of 37

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

HPLC/IC (Continued)

Analysis Batch: 20409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-3	BH08	Soluble	Solid	300.0	20217
890-2003-4	BH08	Soluble	Solid	300.0	20217
890-2003-5	BH09	Soluble	Solid	300.0	20217
890-2003-6	BH09	Soluble	Solid	300.0	20217
890-2003-7	BH10	Soluble	Solid	300.0	20217
890-2003-8	BH10	Soluble	Solid	300.0	20217
890-2003-9	BH11	Soluble	Solid	300.0	20217
890-2003-10	BH11	Soluble	Solid	300.0	20217
MB 880-20217/1-A	Method Blank	Soluble	Solid	300.0	20217
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	300.0	20217
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20217
890-2003-5 MS	BH09	Soluble	Solid	300.0	20217
890-2003-5 MSD	BH09	Soluble	Solid	300.0	20217

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 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH07 Lab Sample ID: 890-2003-1

Date Collected: 02/18/22 10:45
Date Received: 02/23/22 11:26
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 14:24	CH	XEN MID

Client Sample ID: BH07

Date Collected: 02/18/22 10:55

Lab Sample ID: 890-2003-2

Matrix: Solid

Date Collected: 02/18/22 10:55
Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 02:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:33	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2003-3

Date Collected: 02/18/22 11:00

Date Received: 02/23/22 11:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 03:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 14:42	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2003-4

Date Collected: 02/18/22 11:10

Date Received: 02/23/22 11:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 03:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID

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Job ID: 890-2003-1

SDG: 31403360.03

Client: WSP USA Inc.
Project/Site: RDU 11

Client Sample ID: BH08

Lab Sample ID: 890-2003-4

Date Collected: 02/18/22 11:10

Date Received: 02/23/22 11:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:51	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2003-5

Date Collected: 02/18/22 12:30 Matrix: Solid

Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:59	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2003-6

Date Collected: 02/18/22 12:45 Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 05:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 15:26	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05 Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		5	10.01 g	10 mL	20253 20195	02/24/22 15:51 02/25/22 05:38	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Matrix: Solid

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Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05

Date Received: 02/23/22 11:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 15:35	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2003-8

Date Collected: 02/18/22 13:20 Matrix: Solid

Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		50			20409	02/27/22 16:01	CH	XEN MID

Client Sample ID: BH11 Lab Sample ID: 890-2003-9

Date Collected: 02/18/22 13:30 Matrix: Solid
Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20308	02/25/22 17:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 16:10	CH	XEN MID

Client Sample ID: BH11 Lab Sample ID: 890-2003-10

Date Collected: 02/18/22 13:45 Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20308	02/25/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 16:19	CH	XEN MID

Eurofins Carlsbad

Matrix: Solid

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Lab Chronicle

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-2003-1 SDG: 31403360.03

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-21-22	06-30-22	
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

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Method Summary

Job ID: 890-2003-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.03

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2003-1	BH07	Solid	02/18/22 10:45	02/23/22 11:26	0.5
890-2003-2	BH07	Solid	02/18/22 10:55	02/23/22 11:26	4
890-2003-3	BH08	Solid	02/18/22 11:00	02/23/22 11:26	0.5
890-2003-4	BH08	Solid	02/18/22 11:10	02/23/22 11:26	4
890-2003-5	BH09	Solid	02/18/22 12:30	02/23/22 11:26	0.5
890-2003-6	BH09	Solid	02/18/22 12:45	02/23/22 11:26	4
890-2003-7	BH10	Solid	02/18/22 13:05	02/23/22 11:26	0.5
890-2003-8	BH10	Solid	02/18/22 13:20	02/23/22 11:26	4
890-2003-9	BH11	Solid	02/18/22 13:30	02/23/22 11:26	0.5
890-2003-10	BH11	Solid	02/18/22 13:45	02/23/22 11:26	4

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Chain of Custody

	Revised Date 051418 Rev. 2018 1			0								
REQUEST REQ				la cu	3	23		1	0° (1,7			OF THE PERSON NAMED IN COLUMN TO PERSON NAME
REQUEST Reporting:Level II	Date/Time				te/Time	Da	re)	y: (Signatu	Received b	5	: (Signature)	Relinquished by
Phoemix.AZ (480-355-0900) Atlanta GA (770-449-8800) Temps.FL (813-820-2000) Work Order Coo Djamy Name: WSP		ndard terms and conditions instances beyond the control previously negotiated.		co, its affill curred by not analyz	ny to Xen (penses ir Kenco, bu	ent compa	chase order from cli ponsibility for any lo or each sample sub	ssume any respectively charge of \$5 to	samples constitutes and shall not as ach project and a	hment of s of samples oplied to ea	document and relinquis liable only for the cost arge of \$75.00 will be ap	otice: Signature of this service. Xenco will be Xenco. A minimum ch
Hobbs.MM (676-3867-7560) Phoenix.AZ (480-385-0900) Alamia GA (770-449-8800) Tampa FL (818-600-2000) Work Order Coden	Sn ∪ V Zn .1 / 7470 / 7471 : Hg	Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mo d Cr Co Cu Pb Mn Mo Ni S	Be B	As Ba	Al Sb RA Sb	PM Texas 11 LP 6010: 8RCI	CRA 13PI	8R alyzed	20: o be ana	010 200.8 / 60 (s) and Metal(s) t	Total 200.7 / 6 Circle Methoo
Hobbs.NM (575-392-7550) Phoenix.AZ (480-055-0900) Aluma (54) (776-449-9800) Tampa FL (873-620-2000) Wark Procedum	Discrete			×	<u> </u>	-	4	13:45	2/18/2022			BH1
Hobbs.NM (675-939-755) Phoenix.AZ (480-9500) Alemia GA (770-449-9800) Temps.FL (870-820-2000) May Seph Hernandez Mosph Hernandez	Discrete			×	-	-	0.5	13:30	2/18/2022	0,		BH1
Napp2200728755 Property AZ (480-955-0000) Alemin GA (770-449-9600) Temps FL (813-600-2000) Wark Order Committed	Discrete			×	-	_	4'	13:20	02/18/22	0,		ВН1
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Hobbs, NM (575-392/7550) Phoenix, AZ (480-355-0900) Allamia, GA (770-449-8800) Tampa, FL (813-620-2000) Work Order Com	if received by 4:30pm	lab,		le (E	-			Containers:	Total	(\$	Yes	Sample Custody Sea
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Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlantia,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Pager: Joseph Hernandez Bill to: (if different) Joseph Hernandez WSP USA Company Name: WSP WSP WSP Sate of Project: 3300 N A Street Address: 3300 N A Street City, State ZIP: Midland, TX, 79705 Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST www.xenco.com Page Www.xenco.com Page Work Order Commu Program: UST/PST RP rownfields State of Project: Reporting:Level evel Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Deliverables: EDD ADaPT Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Page Work Order Commu Program: UST/PST Reporting:Level evel Email: EDD ADaPT Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Page Work Order Commu Program: UST/PST Reporting:Level Email: EDD ADaPT Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Program: UST/PST Reporting:Level Email: EDD ADaPT Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Program: UST/PST Reporting:Level Email: EDD Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Program: UST/PST Reporting:Level Email: EDD Email: Address: Anna.Byers@wsp.com ANALYSIS REQUEST Program: UST/PST							ine 4	Rout	.03	403360	31	roject Number:
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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page Joseph Hernandez Joseph Hernandez Work Order Comments y Name: WSP USA Company Name: WSP Program: UST/PST □RP □rownfields □RC 3300 N A Street Address: 3300 N A Street State of Project:	FR Livel IV	□evel III □T/UST -	Re	(, 79705	fland, T	Mic	City, State ZIP:			05	Midland, TX, 797	City, State ZIP:
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				7000	V (C 14)	Dallas, I	17 (201) 540-4500	- Duston,		J		

Work Order No:

Eurofins Carlsbad

Chain of Custody Record

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Environment Testing America

Cansbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199	,													
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer, Jessica	essica				Carrier Tr	Camier Tracking No(s)	(s)		COC No: 890-639 1	
Client Contact: Shipping/Receiving	Phone.			E-Mail jessica.kramer@eurofinset.com	ımer@eur	ofinset	com		State of Origin New Mexico)rigin			Page: Page 1 of 2	
Company: Eurofins Environment Testing South Centr				Accre	Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	uired (Se Iana, N	e note): ELAP - To	exas					Job #: 890-2003-1	
Address. 1211 W Florida Ave,	Due Date Requested 3/1/2022	ă					Analysis	is Reg	Requested	1			Preservation Codes.	des.
City: Midland	TAT Requested (days):	ıys)·			<u> </u>							a.YS	A HCL B NaOH	M - Hexane N - None O - AsNaO2
State Zip TX, 79701												, your	'nΟ	P Na2O4S Q Na2SO3
Phone: 432-704-5440(TeI)	PO #)									د ب	R Na2S2O3 S H2SO4
Email	WO#:				p Full								1688 nr. 1860 B	U Acetone V - MCAA
Project Name: RDU 11	Project #: 89000048				S_Pre	≣X						ainer	- ス	W pH 4-5 Z other (specify)
Site	SSOW#:			0.070357440031050	15NM_							f cont	Other:	
		Sample	Sample Matrix Type (w-water S=solid, (C=Comp, o=waste/oi),	를 로 및 그것 pld Filtered S rform MS/MS	5MOD_NM/80	1B/5035FP_C	al_BTEX_GC\ 5MOD_Calc					tal Number o		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=Tissue, A=Air Preservation Code:	FI	80	<u> </u>			4	1		A To	Ì	Special Instructions/Note.
BH07 (890-2003-1)	2/18/22	10 45 Mountain	Solid	ä	×	×	×		allo para de la companya de la compa			<u> </u>		
вно7 (890-2003-2)	2/18/22	10 55 Mountain	Solid	ā	×	×	×					اد		
ВН08 (890-2003-3)	2/18/22	11 00 Mountain	Solid	ā	×	×	×					د		
ВН08 (890-2003-4)	2/18/22	11 10 Mountain	Solid	ō.	×	×	×							
ВН09 (890-2003-5)	2/18/22	12 30 Mountain	Solid	ā	×	×	×							
ВН09 (890-2003-6)	2/18/22	12 45 Mountain	Solid	ā	×	×	×					48		
ВН10 (890-2003-7)	2/18/22	13 05 Mountain	Solid	Ē	×	×	×					الكتيرا	Ti 28	
вн10 (890-2003-8)	2/18/22	13 20 Mountain	Solid	lid.	×	×	×					الغلب		
BH11 (890-2003-9)	2/18/22	13 30 Mountain	Solid	ā	×	×	×					ايفس		
Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC alternation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC.	nent Testing South Centr t above for analysis/tests, Central LLC attention in	al, LLC places th /matrix being an imediately If all	he ownership of meth alyzed the samples i requested accredital	od analyte & ana	accreditation id back to th nt to date, re	complian e Eurofins turn the s	ce upon ou Environme gned Chair	t subconte ent Testine of Custo	act labora J South C dy attestir	tories Ti entral LLi ig to said	nis sample Claborato complicar	shipmer ry or othe	nt is forwarded under er instructions will be rofins Environment To	chain-of-custody If the provided. Any changes to esting South Central LLC.
Possible Hazard Identification Unconfirmed				S	ample Di	le Disposal (A f	A fee m	ay be a	ssesse	assessed if san Disnosal By Lah	ples ar	e retai	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal Ret I sh	1 month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	able Rank 2		S	Special Instructions/QC Requirements	tructions	/QC Rec	uireme	īš ,					
Empty Kit Relinquished by		Date		Time		1	-		X.	Method of Shipment:	ipment:			
Relinquished by (M Collo 2.25.22	Date/Time [.]		Company	ıy	Recëlved		\setminus				Date/Time:	2	102	Company
	Date/Time:		Company	ų	Received	ξ.					Date/Time [.]		_	Company
Relinquished by	Date/Time:		Company	Ŋ	Received by:	by:					Date/Time:			Company
Custody Seals Intact: Custody Seal No					Cooler Te	Cooler Temperature(s)	റ്	and Other Remarks.	marks.	l		l		

Carlsbad, NM 88220

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Chain of Custody Record

Project Name. RDU 11 State, Zip: T**X** 79701 Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central. LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC. BH11 (890-2003-10) Sample Identification - Client ID (Lab ID) Midland Eurofins Environment Testing South Centre Client Information (Sub Contract Lab Phone 575-988-3199 Fax 575-988-3199 elinquished by Relinquished by elinquished by: Deliverable Requested | II III, IV, Other (specify) ossible Hazard Identification 1211 W Florida Ave, Shipping/Receiving impty Kit Relinquished by 132-704-5440(Tel) nconfirmed CC C C 970 D Custody Seal No 89000048 Primary Deliverable Rank Due Date Requested 3/1/2022 Phone: Sampler Date/Time PO#: TAT Requested (days): **^**0# Sample Date 2/18/22 Time Date Mountair Sample 13 45 (C=comp, G=grab) Sample Type Preservation Code Company Company Company Matrix Solid Kramer, Jessica essica kramer@eurofinset.com Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by × 8015MOD_NM/8015NM_S_Prep Full TPH × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6035FP_Calc BTEX × Total_BTEX_GCV Analysis Requested 8015MOD_Calc × State of Origin: New Mexico Carrier Tracking No(s) Method of Shipmen Date/Time Total Number of containers A - HCL
B NaOH
C-Zn Acetate
D Nitric Acid
E-NaHSO4
F-MoOH
G-Amchior
H Ascorbic Acid
I-loe
J Di Water
K-EDTA
L EDA COC No 890-639 2 Preservation Codes 890-2003-1 Page 2 of 2 Special Instructions/Note M Hexane
N-None
O AsNaO2
P-Na2O4S
Q Na2SO3
R Na2SO3
R Na2SO3
S H2SO4
T TSP Dodecahydrate
U-Acetone
V MCAA
W pH 4-5
W pH 4-5 Company Company Months other (specify)

🐫 eurofins

Environment Testing

Ver: 06/08/2021

Login Sample Receipt Checklist

 Client: WSP USA Inc.
 Job Number: 890-2003-1

 SDG Number: 31403360.03

List Source: Eurofins Carlsbad

Login Number: 2003 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Job Number: 890-2003-1 SDG Number: 31403360.03

List Source: Eurofins Midland List Creation: 02/24/22 12:49 PM

List Number: 2 Creator: Teel, Brianna

Login Number: 2003

Client: WSP USA Inc.

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Eurofins Carlsbad

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2030-1

Laboratory Sample Delivery Group: 31403360.031

Client Project/Site: RDU 11

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Joseph Hernandez

J. CRAMER

Authorized for release by: 3/7/2022 9:27:48 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 3/20/2024 8:43:50 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.

Project/Site: RDU 11

Laboratory Job ID: 890-2030-1

SDG: 31403360.031

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	15
QC Sample Results	16
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	32

2

3

4

6

8

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11

12

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description	

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CEI	Contains Fron Liquid

Contains Free Liquid CFL CFU Colony Forming Unit CNF Contains No Free Liquid DER

Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Job ID: 890-2030-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2030-1

Receipt

The samples were received on 3/1/2022~8:50~AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was $1.0^{\circ}C$

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPI C/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Eurofins Carlsbad 3/7/2022

Lab Sample ID: 890-2030-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH12

Date Collected: 02/28/22 10:30 Date Received: 03/01/22 08:50

Sample Depth: 2

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:21	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/06/22 11:15	03/06/22 16:21	1
1,4-Difluorobenzene (Surr)	114		70 - 130				03/06/22 11:15	03/06/22 16:21	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
			RI	MDI	Unit	ח	Prepared	Analyzed	Dil Fa
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		RL	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 03/03/22 12:29	
Total TPH	<50.0	U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<50.0	U				D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			03/03/22 12:29	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D	CODE (GC) Qualifier U	50.0		mg/Kg		Prepared	03/03/22 12:29 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (Di Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 02:31	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (Di Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 02:31 03/03/22 02:31	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 02:31 03/03/22 02:31	Dil Face
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (Digentification (Dig	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared	03/03/22 12:29 Analyzed 03/03/22 02:31 03/03/22 02:31 03/03/22 02:31 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <100 100 104	CONTROL (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 02:31 03/03/22 02:31 Analyzed 03/03/22 02:31	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 $CONTROL (GC) Qualifier U U Qualifier50.0 RL 50.0 50.0 50.0 Limits 70 - 130mg/Kg Unit mg/Kg mg/Kg mg/KgPrepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:1103/03/22 12:29 Analyzed 03/03/22 02:31 03/03/22 02:31 Analyzed 03/03/22 02:31Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac$	CONTROL (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 02:31 03/03/22 02:31 Analyzed 03/03/22 02:31	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac

Client Sample ID: BH12

Date Collected: 02/28/22 10:33 Date Received: 03/01/22 08:50

Date Received. 00/01/22

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	9	S1-	70 - 130				03/06/22 11:15	03/06/22 16:48	

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2030-2

Lab Sample ID: 890-2030-2

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH12

Date Collected: 02/28/22 10:33 Date Received: 03/01/22 08:50

Sample Depth: 4

Method: 8021B - Vol	atile Organic Cor	npounds (GC	(Continued)
momous coasts to	atilo organio coi		, (-

Surrogate		Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	03/06/22 11:15	03/06/22 16:48	1

Method:	Total BTFX	- Total BTEX	Calculation
Mictilou.	TOTAL DIEN	- IOIGI DIEX	Oulculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/07/22 21:30	1

Method:	2015 NM	- Diasal	Range	Organics	(DRO) (GC

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/03/22 12:29	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99	70 - 130	03/02/22 08:11	03/03/22 03:34	1
o-Terphenyl	103	70 - 130	03/02/22 08:11	03/03/22 03:34	1

Method: 300.0 - Anions,	on Chromatography	· - Soluble
	_	

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360	25.0	mg/Kg			03/05/22 16:06	5

Client Sample ID: BH13

Date Collected: 02/28/22 11:20

Lab Sample ID: 890-2030-3

Matrix: Solid

Date Collected: 02/28/22 11:20 Date Received: 03/01/22 08:50

Sample Depth: 2

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

moundar coziz rolatile enganie	, , , , , , , , , , , , , , , , , , , ,	()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/22 11:15	03/06/22 17:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/22 11:15	03/06/22 17:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/22 11:15	03/06/22 17:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/22 11:15	03/06/22 17:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/22 11:15	03/06/22 17:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/22 11:15	03/06/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				03/06/22 11:15	03/06/22 17:15	1
1,4-Difluorobenzene (Surr)	118		70 - 130				03/06/22 11:15	03/06/22 17:15	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	U	Prepared	Analyzed	DII Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	03/07/22 21:30	1

Analyte	•	•	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg/k	.g		03/03/22 12:29	1

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Lab Sample ID: 890-2030-3

Job ID: 890-2030-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13

Date Collected: 02/28/22 11:20 Date Received: 03/01/22 08:50

Sample Depth: 2

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	•
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	108		70 - 130				03/02/22 08:11	03/03/22 03:55	
o-Terphenyl	112		70 - 130				03/02/22 08:11	03/03/22 03:55	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	4430		49.7		mg/Kg			03/05/22 16:18	10

Lab Sample ID: 890-2030-4 **Client Sample ID: BH13** Date Collected: 02/28/22 11:25 Matrix: Solid

Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8	S1-	70 - 130				03/06/22 11:15	03/06/22 17:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 17:41	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/02/22 08:11	03/03/22 04:15	1

Job ID: 890-2030-1

SDG: 31403360.031

Client: WSP USA Inc. Project/Site: RDU 11

Date Received: 03/01/22 08:50

Client Sample ID: BH13 Lab Sample ID: 890-2030-4 Date Collected: 02/28/22 11:25

Matrix: Solid

Sample Depth: 4

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7260		49.8		mg/Kg			03/05/22 16:30	10

Client Sample ID: BH14 Lab Sample ID: 890-2030-5

Date Collected: 02/28/22 11:30

Matrix: Solid

Date Received: 03/01/22 08:50

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/06/22 11:15	03/06/22 18:08	1
1,4-Difluorobenzene (Surr)	116		70 - 130				03/06/22 11:15	03/06/22 18:08	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/02/22 08:11	03/03/22 04:36	1
o-Terphenyl	106		70 - 130				03/02/22 08:11	03/03/22 04:36	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2030-6

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH14

Date Collected: 02/28/22 11:35 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/22 11:15	03/06/22 18:35	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/22 11:15	03/06/22 18:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				03/06/22 11:15	03/06/22 18:35	
1,4-Difluorobenzene (Surr)	119		70 - 130				03/06/22 11:15	03/06/22 18:35	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/22 21:30	
Analyte							Duamanad	A so a la ses al	Dil Fa
		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 03/03/22 12:29	Dil Fa
	<50.0	U RO) (GC)			mg/Kg		Prepared		
Total TPH Method: 8015B NM - Diesel Ranç	<50.0 ge Organics (D	RO) (GC) Qualifier			mg/Kg	D	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			03/03/22 12:29	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D	RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	03/03/22 12:29 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Dispersion Result <50.0	COO (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (Di Result <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (Digital Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57 03/03/22 04:57 Analyzed	Dil Fa
Total TPH	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 118 120 omatography -	U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57 Analyzed 03/03/22 04:57	Dil Fa
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 118 120 omatography -	U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57 Analyzed 03/03/22 04:57	

Client Sample ID: BH15

Date Collected: 02/28/22 11:40

Date Received: 03/01/22 08:50

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				03/06/22 11:15	03/06/22 19:02	

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Lab Sample ID: 890-2030-7

Matrix: Solid

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Lab Sample ID: 890-2030-7

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH15

Date Collected: 02/28/22 11:40 Date Received: 03/01/22 08:50

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	03/06/22 11:15	03/06/22 19:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg				03/07/22 21:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1-Chlorooctane	97	70 - 130	03/02/22 08	3:11 03/03/22 05:18	1
o-Terphenyl	99	70 - 130	03/02/22 08	3:11 03/03/22 05:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.5		5.00		mg/Kg			03/05/22 17:05	1

Client Sample ID: BH15 Lab Sample ID: 890-2030-8

Date Collected: 02/28/22 11:50 Date Received: 03/01/22 08:50

Sample Depth: 4

11 (I I 0004D			. (00)
Method: 8021B -	Volatile Or	ganic Comr	ounds (GC)

	()							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
94		70 - 130				03/06/22 11:15	03/06/22 20:48	1
110		70 - 130				03/06/22 11:15	03/06/22 20:48	1
	Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 <0.00403 <0.00403 %Recovery 94		Result Qualifier RL <0.00202	Result Qualifier RL MDL <0.00202	Result Qualifier RL MDL Unit <0.00202	Result Qualifier RL MDL Unit D <0.00202	Result Qualifier RL MDL Unit D Prepared <0.00202	Result Qualifier RL MDL Unit D mg/Kg Prepared 03/06/22 11:15 03/06/22 20:48 <0.00202 U

Mothod:	Total RTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka			03/07/22 21:30	1

Method: 8015 NM - Diesel Range Organics	(DRO) (GC)
metrica: co to tem Dieser trange organies	(5110) (55)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/03/22 12:29	1

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Matrix: Solid

Lab Sample ID: 890-2030-8

Analyzed

03/05/22 17:41

Client: WSP USA Inc. Job ID: 890-2030-1
Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH15

Date Collected: 02/28/22 11:50 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	1	mg/Kg		03/02/22 08:11	03/03/22 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/02/22 08:11	03/03/22 05:38	1
o-Terphenyl	111		70 - 130				03/02/22 08:11	03/03/22 05:38	1

Client Sample ID: BH16

Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20

Matrix: Solid

RL

4.98

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

21.4

Date Received: 03/01/22 08:50

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Sample Depth: 2

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				03/06/22 11:15	03/06/22 21:15	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/22 11:15	03/06/22 21:15	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/02/22 08:11	03/03/22 05:59	1

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2

3

5

7

8

11

Dil Fac

12

Lab Sample ID: 890-2030-9

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH16

Date Collected: 02/28/22 13:20 Date Received: 03/01/22 08:50

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	1940		24.8		mg/Kg			03/05/22 17:53	5		

Client Sample ID: BH16

Lab Sample ID: 890-2030-10

Date Collected: 02/28/22 13:25

Matrix: Solid

Date Collected: 02/28/22 13:25 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 21:42	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130				03/06/22 11:15	03/06/22 21:42	
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 21:42	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/02/22 08:11	03/03/22 06:19	1
o-Terphenyl	106		70 - 130				03/02/22 08:11	03/03/22 06:19	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4650		50.1		mg/Kg			03/05/22 18:28	10

Lab Sample ID: 890-2030-11

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH17

Date Collected: 02/28/22 14:15 Date Received: 03/01/22 08:50

Sample Depth: 2

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 22:09	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/22 11:15	03/06/22 22:09	
1,4-Difluorobenzene (Surr)	106		70 - 130				03/06/22 11:15	03/06/22 22:09	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/22 21:30	-
		O) (GC)				_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/03/22 12:29	
	<49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9 ge Organics (D	Qualifier U				<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang	<49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			03/03/22 12:29	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	03/03/22 12:29 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<49.9 ge Organics (D) Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:01	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (D Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:01 03/03/22 07:01	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:01 03/03/22 07:01 03/03/22 07:01	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared	03/03/22 12:29 Analyzed 03/03/22 07:01 03/03/22 07:01 03/03/22 07:01 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 96 97	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:01 03/03/22 07:01 Analyzed 03/03/22 07:01	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <80.9 %Recovery 96 97 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:01 03/03/22 07:01 Analyzed 03/03/22 07:01	Dil Fac

Client Sample ID: BH17

Date Collected: 02/28/22 14:20 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/22 11:15	03/06/22 22:36	1

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Matrix: Solid

Lab Sample ID: 890-2030-12

Lab Sample ID: 890-2030-12

03/05/22 18:52

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH17

Date Collected: 02/28/22 14:20 Date Received: 03/01/22 08:50

Sample Depth: 4

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 22:36	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran	ige Organics (Di	RO) (GC)							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 07:21	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 07:21	1
C10-C28)					3 3				
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/02/22 08:11	03/03/22 07:21	1
o-Terphenyl	103		70 ₋ 130				03/02/22 08:11	03/03/22 07:21	1

100

mg/Kg

8280

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11719-A-1-J MS	Matrix Spike	89	123	
880-11719-A-1-K MSD	Matrix Spike Duplicate	94	124	
890-2030-1	BH12	101	114	
890-2030-2	BH12	9 S1-	101	
890-2030-3	BH13	102	118	
890-2030-4	BH13	8 S1-	108	
890-2030-5	BH14	87	116	
890-2030-6	BH14	106	119	
890-2030-7	BH15	170 S1+	85	
890-2030-8	BH15	94	110	
890-2030-9	BH16	83	105	
890-2030-10	BH16	89	108	
890-2030-11	BH17	99	106	
890-2030-12	BH17	101	108	
LCS 880-20687/1-A	Lab Control Sample	82	116	
LCSD 880-20687/2-A	Lab Control Sample Dup	84	111	
MB 880-20687/5-A	Method Blank	51 S1-	108	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2030-1	BH12	100	104	
890-2030-1 MS	BH12	94	100	
890-2030-1 MSD	BH12	99	95	
890-2030-2	BH12	99	103	
890-2030-3	BH13	108	112	
890-2030-4	BH13	95	97	
890-2030-5	BH14	104	106	
890-2030-6	BH14	118	120	
890-2030-7	BH15	97	99	
890-2030-8	BH15	108	111	
890-2030-9	BH16	93	92	
890-2030-10	BH16	105	106	
890-2030-11	BH17	96	97	
890-2030-12	BH17	99	103	
LCS 880-20658/2-A	Lab Control Sample	107	106	
LCSD 880-20658/3-A	Lab Control Sample Dup	106	105	
MB 880-20658/1-A	Method Blank	112	117	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20687/5-A

Matrix: Solid Analysis Batch: 20977 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20687

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/22 11:15	03/06/22 14:35	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	03/06/22 11:15	03/06/22 14:35	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/06/22 11:15	03/06/22 14:35	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-20687/1-A Matrix: Solid

Analysis Batch: 20977

Prep Type: Total/NA Prep Batch: 20687

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08533		mg/Kg		85	70 - 130	
Toluene	0.100	0.08536		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09079		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09200		mg/Kg		92	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	ıalifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-20687/2-A

Matrix: Solid

Analysis Batch: 20977

Client Sample ID	: Lab Control	Sample	Dup
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Prep Type: Total/NA

Prep Batch: 20687

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09073		mg/Kg		91	70 - 130	6	35	
Toluene	0.100	0.08702		mg/Kg		87	70 - 130	2	35	
Ethylbenzene	0.100	0.09419		mg/Kg		94	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130	4	35	
o-Xylene	0.100	0.09334		mg/Kg		93	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1 4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-11719-A-1-J MS

Matrix: Solid

Analysis Batch: 20977

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 20687

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1035		mg/Kg		104	70 - 130	
Toluene	< 0.00199	U	0.0998	0.09757		mg/Kg		98	70 - 130	

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Page 16 of 33

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Prep Batch: 20687

Client: WSP USA Inc. Job ID: 890-2030-1 SDG: 31403360.031 Project/Site: RDU 11

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-11719-A-1-J MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 20977

Analyte Result Qualifier Added Result Qualifier Unit Ethylbenzene <0.00199 U 0.0998 0.1035 mg/Kg		Sample	Sample	Spike	MS	MS				%Rec.
Ethylbenzene <0.00199 U 0.0998 0.1035 mg/Kg	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
.,	Ethylbenzene	<0.00199	U	0.0998	0.1035		mg/Kg		104	70 - 130
m-Xylene & p-Xylene <0.00398 U 0.200 0.2115 mg/Kg	m-Xylene & p-Xylene	<0.00398	U	0.200	0.2115		mg/Kg		106	70 - 130
o-Xylene <0.00199 U 0.0998 0.1057 mg/Kg	o-Xylene	< 0.00199	U	0.0998	0.1057		mg/Kg		106	70 - 130
		MS	MS							

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 880-11719-A-1-K MSD

Matrix: Solid									Prep '	Type: To	tal/NA
Analysis Batch: 20977									Prep	Batch:	20687
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.1073		mg/Kg		106	70 - 130	4	35

<0.00199 U 0.101 0.1009 70 - 130 35 Toluene mg/Kg 100 Ethylbenzene <0.00199 U 0.101 0.1083 mg/Kg 107 70 - 130 5 35 m-Xylene & p-Xylene <0.00398 U 0.202 0.2216 70 - 130 35 mg/Kg 110 5 <0.00199 U 0.101 o-Xylene 0.1086 107 70 - 130 mg/Kg MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20658/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20655

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 01:28	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 01:28	1
	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 01:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/02/22 08:11	03/03/22 01:28	1
o-Terphenyl	117		70 - 130	03/02/22 08:11	03/03/22 01:28	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-20658/2-A **Matrix: Solid**

Analysis Batch: 20655							-	Batch: 20658
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	930.2	-	mg/Kg		93	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	852.2		mg/Kg		85	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Prep Batch: 20658

C10-C28)

C10-C28)

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11

SDG: 31403360.031

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-20658/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 20655 Prep Batch: 20658

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 106 70 - 130

Lab Sample ID: LCSD 880-20658/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 20655 Prep Batch: 20658

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 971.8 97 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 874.2 87 mg/Kg 70 - 1303 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 106 70 - 130 1-Chlorooctane 105 70 - 130 o-Terphenyl

Lab Sample ID: 890-2030-1 MS Client Sample ID: BH12 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20655 Prep Batch: 20658

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 1000 1077 mg/Kg 105 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 943.7 mg/Kg 94 70 - 130

MS MS Surrogate %Recovery Qualifier Limits

70 - 130 1-Chlorooctane 94 70 - 130 o-Terphenyl 100

Lab Sample ID: 890-2030-1 MSD Client Sample ID: BH12 **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 20655 Prep Batch: 20658

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit <50.0 U 998 1086 106 Gasoline Range Organics mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 910.9 mg/Kg 91 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 99 70 - 130 95 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20681/1-A

Matrix: Solid

Analysis Batch: 20963

Prep Type: Soluble

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/05/22 13:14

Lab Sample ID: LCS 880-20681/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 20963

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.8 mg/Kg 102 90 - 110

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Lab Sample ID: LCSD 880-20681/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 20963

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 257.4 mg/Kg 103 90 - 110

Lab Sample ID: 890-2030-7 MS Client Sample ID: BH15 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 20963

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 316.5 Chloride 77.5 250 96 90 - 110 mg/Kg

Lab Sample ID: 890-2030-7 MSD Client Sample ID: BH15 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 20963

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 77.5 321.4 mg/Kg 98 90 - 110 20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

GC VOA

Prep Batch: 20687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	5035	
890-2030-2	BH12	Total/NA	Solid	5035	
890-2030-3	BH13	Total/NA	Solid	5035	
890-2030-4	BH13	Total/NA	Solid	5035	
890-2030-5	BH14	Total/NA	Solid	5035	
890-2030-6	BH14	Total/NA	Solid	5035	
890-2030-7	BH15	Total/NA	Solid	5035	
890-2030-8	BH15	Total/NA	Solid	5035	
890-2030-9	BH16	Total/NA	Solid	5035	
890-2030-10	BH16	Total/NA	Solid	5035	
890-2030-11	BH17	Total/NA	Solid	5035	
890-2030-12	BH17	Total/NA	Solid	5035	
MB 880-20687/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20687/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20687/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11719-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
880-11719-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8021B	20687
890-2030-2	BH12	Total/NA	Solid	8021B	20687
890-2030-3	BH13	Total/NA	Solid	8021B	20687
890-2030-4	BH13	Total/NA	Solid	8021B	20687
890-2030-5	BH14	Total/NA	Solid	8021B	20687
890-2030-6	BH14	Total/NA	Solid	8021B	20687
890-2030-7	BH15	Total/NA	Solid	8021B	20687
890-2030-8	BH15	Total/NA	Solid	8021B	20687
890-2030-9	BH16	Total/NA	Solid	8021B	20687
890-2030-10	BH16	Total/NA	Solid	8021B	20687
890-2030-11	BH17	Total/NA	Solid	8021B	20687
890-2030-12	BH17	Total/NA	Solid	8021B	20687
MB 880-20687/5-A	Method Blank	Total/NA	Solid	8021B	20687
LCS 880-20687/1-A	Lab Control Sample	Total/NA	Solid	8021B	20687
LCSD 880-20687/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20687
880-11719-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	20687
880-11719-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20687

Analysis Batch: 21059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	Total BTEX	
890-2030-2	BH12	Total/NA	Solid	Total BTEX	
890-2030-3	BH13	Total/NA	Solid	Total BTEX	
890-2030-4	BH13	Total/NA	Solid	Total BTEX	
890-2030-5	BH14	Total/NA	Solid	Total BTEX	
890-2030-6	BH14	Total/NA	Solid	Total BTEX	
890-2030-7	BH15	Total/NA	Solid	Total BTEX	
890-2030-8	BH15	Total/NA	Solid	Total BTEX	
890-2030-9	BH16	Total/NA	Solid	Total BTEX	
890-2030-10	BH16	Total/NA	Solid	Total BTEX	
890-2030-11	BH17	Total/NA	Solid	Total BTEX	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC VOA (Continued)

Analysis Batch: 21059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-12	BH17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 20655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8015B NM	20658
890-2030-2	BH12	Total/NA	Solid	8015B NM	20658
890-2030-3	BH13	Total/NA	Solid	8015B NM	20658
890-2030-4	BH13	Total/NA	Solid	8015B NM	20658
890-2030-5	BH14	Total/NA	Solid	8015B NM	20658
890-2030-6	BH14	Total/NA	Solid	8015B NM	20658
890-2030-7	BH15	Total/NA	Solid	8015B NM	20658
890-2030-8	BH15	Total/NA	Solid	8015B NM	20658
890-2030-9	BH16	Total/NA	Solid	8015B NM	20658
890-2030-10	BH16	Total/NA	Solid	8015B NM	20658
890-2030-11	BH17	Total/NA	Solid	8015B NM	20658
890-2030-12	BH17	Total/NA	Solid	8015B NM	20658
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015B NM	20658
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20658
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20658
890-2030-1 MS	BH12	Total/NA	Solid	8015B NM	20658
890-2030-1 MSD	BH12	Total/NA	Solid	8015B NM	20658

Prep Batch: 20658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2030-1	BH12	Total/NA	Solid	8015NM Prep	
890-2030-2	BH12	Total/NA	Solid	8015NM Prep	
890-2030-3	BH13	Total/NA	Solid	8015NM Prep	
890-2030-4	BH13	Total/NA	Solid	8015NM Prep	
890-2030-5	BH14	Total/NA	Solid	8015NM Prep	
890-2030-6	BH14	Total/NA	Solid	8015NM Prep	
890-2030-7	BH15	Total/NA	Solid	8015NM Prep	
890-2030-8	BH15	Total/NA	Solid	8015NM Prep	
890-2030-9	BH16	Total/NA	Solid	8015NM Prep	
890-2030-10	BH16	Total/NA	Solid	8015NM Prep	
890-2030-11	BH17	Total/NA	Solid	8015NM Prep	
890-2030-12	BH17	Total/NA	Solid	8015NM Prep	
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2030-1 MS	BH12	Total/NA	Solid	8015NM Prep	
890-2030-1 MSD	BH12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2030-1	BH12	Total/NA	Solid	8015 NM
890-2030-2	BH12	Total/NA	Solid	8015 NM
890-2030-3	BH13	Total/NA	Solid	8015 NM
890-2030-4	BH13	Total/NA	Solid	8015 NM
890-2030-5	BH14	Total/NA	Solid	8015 NM

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

GC Semi VOA (Continued)

Analysis Batch: 20812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-6	BH14	Total/NA	Solid	8015 NM	
890-2030-7	BH15	Total/NA	Solid	8015 NM	
890-2030-8	BH15	Total/NA	Solid	8015 NM	
890-2030-9	BH16	Total/NA	Solid	8015 NM	
890-2030-10	BH16	Total/NA	Solid	8015 NM	
890-2030-11	BH17	Total/NA	Solid	8015 NM	
890-2030-12	BH17	Total/NA	Solid	8015 NM	

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Leach Batch: 20681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Soluble	Solid	DI Leach	
890-2030-2	BH12	Soluble	Solid	DI Leach	
890-2030-3	BH13	Soluble	Solid	DI Leach	
890-2030-4	BH13	Soluble	Solid	DI Leach	
890-2030-5	BH14	Soluble	Solid	DI Leach	
890-2030-6	BH14	Soluble	Solid	DI Leach	
890-2030-7	BH15	Soluble	Solid	DI Leach	
890-2030-8	BH15	Soluble	Solid	DI Leach	
890-2030-9	BH16	Soluble	Solid	DI Leach	
890-2030-10	BH16	Soluble	Solid	DI Leach	
890-2030-11	BH17	Soluble	Solid	DI Leach	
890-2030-12	BH17	Soluble	Solid	DI Leach	
MB 880-20681/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20681/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20681/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2030-7 MS	BH15	Soluble	Solid	DI Leach	
890-2030-7 MSD	BH15	Soluble	Solid	DI Leach	

Analysis Batch: 20963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Soluble	Solid	300.0	20681
890-2030-2	BH12	Soluble	Solid	300.0	20681
890-2030-3	BH13	Soluble	Solid	300.0	20681
890-2030-4	BH13	Soluble	Solid	300.0	20681
890-2030-5	BH14	Soluble	Solid	300.0	20681
890-2030-6	BH14	Soluble	Solid	300.0	20681
890-2030-7	BH15	Soluble	Solid	300.0	20681
890-2030-8	BH15	Soluble	Solid	300.0	20681
890-2030-9	BH16	Soluble	Solid	300.0	20681
890-2030-10	BH16	Soluble	Solid	300.0	20681
890-2030-11	BH17	Soluble	Solid	300.0	20681
890-2030-12	BH17	Soluble	Solid	300.0	20681
MB 880-20681/1-A	Method Blank	Soluble	Solid	300.0	20681
LCS 880-20681/2-A	Lab Control Sample	Soluble	Solid	300.0	20681
LCSD 880-20681/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20681
890-2030-7 MS	BH15	Soluble	Solid	300.0	20681
890-2030-7 MSD	BH15	Soluble	Solid	300.0	20681

Job ID: 890-2030-1

Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH12 Lab Sample ID: 890-2030-1

Date Collected: 02/28/22 10:30 Matrix: Solid Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 16:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 15:30	SC	XEN MID

Client Sample ID: BH12 Lab Sample ID: 890-2030-2

Date Collected: 02/28/22 10:33 Matrix: Solid

Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 16:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 03:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 16:06	SC	XEN MID

Client Sample ID: BH13 Lab Sample ID: 890-2030-3 Date Collected: 02/28/22 11:20 **Matrix: Solid**

Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 17:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 16:18	SC	XEN MID

Client Sample ID: BH13 Lab Sample ID: 890-2030-4

Date Collected: 02/28/22 11:25 Date Received: 03/01/22 08:50

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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 17:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID

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Page 23 of 33

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Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13 Lab Sample ID: 890-2030-4

Date Collected: 02/28/22 11:25 Matrix: Solid Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 16:30	SC	XEN MID

Client Sample ID: BH14 Lab Sample ID: 890-2030-5

Date Collected: 02/28/22 11:30 Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 18:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	СН	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 16:41	SC	XEN MID

Client Sample ID: BH14 Lab Sample ID: 890-2030-6

Date Collected: 02/28/22 11:35 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 16:53	SC	XEN MID

Client Sample ID: BH15 Lab Sample ID: 890-2030-7

Date Collected: 02/28/22 11:40 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 19:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	20658 20655	03/02/22 08:11 03/03/22 05:18	DM AJ	XEN MID XEN MID

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Released to Imaging: 3/20/2024 8243150 AM

Matrix: Solid

Job ID: 890-2030-1

Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH15 Lab Sample ID: 890-2030-7

Date Collected: 02/28/22 11:40 Matrix: Solid Date Received: 03/01/22 08:50

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 20681 CH Leach 5 g 50 mL 03/02/22 10:50 XEN MID 300.0 03/05/22 17:05 SC Soluble Analysis 1 20963 XEN MID

Client Sample ID: BH15 Lab Sample ID: 890-2030-8

Date Collected: 02/28/22 11:50 Matrix: Solid

Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 20:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 05:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 17:41	SC	XEN MID

Client Sample ID: BH16 Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 21:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 05:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 17:53	SC	XEN MID

Client Sample ID: BH16 Lab Sample ID: 890-2030-10

Date Collected: 02/28/22 13:25 Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 21:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 06:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 18:28	SC	XEN MID

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 3/20/2024 8243150 PAM

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH17 Lab Sample ID: 890-2030-11

Date Collected: 02/28/22 14:15
Date Received: 03/01/22 08:50
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 22:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 07:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 18:40	SC	XEN MID

Client Sample ID: BH17 Lab Sample ID: 890-2030-12

Date Collected: 02/28/22 14:20

Date Received: 03/01/22 08:50

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 22:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 07:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		20			20963	03/05/22 18:52	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	it the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for w
the agency does not of	fer certification.	,	, g,	ly molade analytes for th
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	y moduce analytee for the
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Method Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-2030-1 SDG: 31403360.031

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2030-1	BH12	Solid	02/28/22 10:30	03/01/22 08:50	2
890-2030-2	BH12	Solid	02/28/22 10:33	03/01/22 08:50	4
890-2030-3	BH13	Solid	02/28/22 11:20	03/01/22 08:50	2
390-2030-4	BH13	Solid	02/28/22 11:25	03/01/22 08:50	4
390-2030-5	BH14	Solid	02/28/22 11:30	03/01/22 08:50	0.5
90-2030-6	BH14	Solid	02/28/22 11:35	03/01/22 08:50	4
90-2030-7	BH15	Solid	02/28/22 11:40	03/01/22 08:50	0.5
0-2030-8	BH15	Solid	02/28/22 11:50	03/01/22 08:50	4
90-2030-9	BH16	Solid	02/28/22 13:20	03/01/22 08:50	2
90-2030-10	BH16	Solid	02/28/22 13:25	03/01/22 08:50	4
90-2030-11	BH17	Solid	02/28/22 14:15	03/01/22 08:50	2
90-2030-12	BH17	Solid	02/28/22 14:20	03/01/22 08:50	4

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Joseph Hernandez

City, State ZIP:

Midland, TX 79705 3300 North A Street

Company Name: Address:

WSP

Chain of Custody

Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000

: (if different)

Jim Raley

WPX Energy

Carlsbad, NM 88220 5315 Buena Vista Dr

Reporting:Level II Level III PST/UST

PRRP ☐evel IV

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

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Phone	281-/02-2329			FRIGHT	Anna. byers@wsp.com	wsp.	COIII					$\ $	
Project Name:	RDU 11			Tui	Turn Around					ANALYSIS REQUEST		Wor	Work Order Notes
Project Number:	31403360.031			Routi	Routine 🔽						_	CC 1137	137631001
Incident ID:	nAPP2200728755	Ğ		Rush								AFE	
lame:	Gilbert Moreno			Due Date	Date							API: PA.	API: PA.2021.04159.EXP.01
SAMPLE RECEIPT		Temp Blank:	Kes No	Wet Ice:	(es) No								
Temperature (°C):	11.2/1	0	7	Thermometer ID	ī	ners)	890-2030 Chain of Custody	dy		
Received Intact:	(Ca)	No	<u> </u>	-00-MIN	4	ntai		21)	0.00	-			
Cooler Custody Seals	Ye		Correc	Correction Factor:	0.2	Co)15)	0=80	PA 3			TAT starts	TAT starts the day recevied by the
Sample Custody Seals:	-	1	Total	Total Containers:		er of	PA 8	EPA	e (El			lab, if	lab, if received by 4:30pm
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth (Feet)	Numbe	TPH (EI	BTEX (I	Chlorid			Sam	Sample Comments
BH12		S	2.28.22	10:30	2	_	×	×	×				
BH12		S	2.28.22	10:33	4		×	×	×				
BH13		S	2.28.22	11:20	2	_	×	×	×				
BH13		S	2.28.22	11:25	4	_	×	×	×				
BH14		တ	2.28.22	11:30	0.5	_	×	×	×				
BH14		s	2.28.22	11:35	4	_	×	×	×				
BH15		S	2.28.22	11:40	0.5	_	×	×	×				
BH15		S	2.28.22	11:50	4	_	×	×	×				
BH16		S	2.28.22	13:20	2	_	×	×	×				
BH16		S	2.28.22	13:25	4	_	×	×	×				
Total 200.7 / 6010	10 200.8 / 6020:	20:	8F	8RCRA 13PPM	PM Texas 11	11 AI	Вb	As Ba	Be B	Cd Ca Cr Co Cu Fe Pb Mg	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V	SiO2 Na Sr Ti S	Sn U V Zn
Circle Method(s	Circle Method(s) and Metal(s) to be analyzed	be ana		TCLP / SPL	TCLP / SPLP 6010: 8RCRA	CRA	Sb As	Ba	Be Cd	Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Ag TI U	1631 / 245.1	1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractor of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses of xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will but	ocument and relinquitable only for the cost	shment of of sample	samples const is and shall not each project an	tutes a valid put assume any re d a charge of \$1	archase order fro esponsibility for for each sample	m client any loss e submit	companes or exp	y to Xer senses i	ico, its af ncurred k t not ana	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	rs. It assigns standard terms and conditions sare due to circumstances beyond the control enforced unless previously negotiated.		
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Work Order No:

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

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Manager: Joseph Hernandez Bill to: (if different) Jim Raley Work Order C. Iny Name: WSP Company Name WPX Energy Program: UST/PST □PRP □Brownfing: Ust Vista Dr. Program: UST/PST □PRP □Brownfing: Ust Vista Dr. State of Project: Reporting: Level III □Level I	Managor: Joseph Hernandez Hobbs.NM (575-392/7550) Phoenix,AZ (490-355-0900) Atlanta,GA (770-449-8800) Tampa.FL (813-620-2000) Www.xenco.com WSP	Midland, ITX (432-704-6440) EL Paso, ITX (915)565-3443 Lubbock, IX (906)794-1296 Work Order Company Name Sale of Company Name Company Name)		Inermomet		perature (°C):	lemp
Manager: Joseph Hernandez Bill 10: (if different) Jim Raley Work Order C. Iny Name: WSP Company Name WPX Energy Program: UST/PST □PRP □Brownfi s: 3300 North A Street Address 5315 Buena Vista Dr. State of Project: ate ZIP: Midland, TX 79705 Email Anna.Byers@wsp.com, Carlsbad, NM 88220 Reporting:Level III □Level III □Level III □PST/L t Name: RDU 11 Turn Around ANALYSIS REQUEST t Name: 31403360.031 Routine □ nAPP2200728755 Rush: ANALYSIS REQUEST ANALYSIS REQUEST Due Date:	Manager: Joseph Hernandez Jim Raley Jim Raley WPX Energy WPX Energy WPX Energy WPX Energy WPX Energy State of Project: Salt -702-2329 State of Project: Company Name Salt-2IP Carlsbad, NM 88220 State of Project: Reporting: Level III □ Level III □ □ Level III □ □ Level III □ □ Level III □ □ ADaPT	Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, IX (906)794-1286 Work Order Communication Manager: Joseph Hernandez Bill to: (if different) Jim Raley WPX Energy Work Order Communication s: 3300 North A Street Address 5315 Buena Vista Dr. Frogram: UST/PST □PRP □Brownfi Program: UST/PST □PRP □Brownfi ate ZIP: Midland, TX 79705 City, State ZIP Carlsbad, NM 88220 Reporting: Level III □Level III □L					Yes No	S		MPLE RECEIPT	SA
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2030-1

SDG Number: 31403360.031

List Source: Eurofins Carlsbad

Login Number: 2030 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

4

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2030-1 SDG Number: 31403360.031

3DG Number: 31403300:031

List Source: Eurofins Midland List Creation: 03/02/22 11:22 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 2030

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Euronnis Carisbau

Released to Imaging: 3/20/2024 824325 PAM

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2040-1

Laboratory SDG: 31403360.036.31403360.035

Client Project/Site: RDU 11

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 3/14/2022 1:37:54 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....Links

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 3/20/2024 8:43:50 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc. Project/Site: RDU 11

Laboratory Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	21
QC Sample Results	23
QC Association Summary	28
Lab Chronicle	33
Certification Summary	40
Method Summary	41
Sample Summary	42
Chain of Custody	43
Receint Checklists	48

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

2

Qualifiers

GC VOA

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*- LCS and/or LCSD is outside acceptance limits, low biased.

S1- Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

F1 MS and/or MSD recovery exceeds control limits.
U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Job ID: 890-2040-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2040-1

Receipt

The samples were received on 3/3/2022 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-20924 and analytical batch 880-21381 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH04 (890-2040-7), BH08 (890-2040-16), BH09 (890-2040-17), BH10 (890-2040-19) and BH10 (890-2040-20). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-21026 and analytical batch 880-21137 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-2040-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH01

Date Collected: 03/03/22 11:05 Date Received: 03/03/22 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/07/22 12:57	03/09/22 23:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/09/22 23:03	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	A ll	
					•		riepaieu	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		- герагеи	03/14/22 12:12	
- ¹¹¹ -						=	rrepareu		
- ¹¹¹ -	ge Organics (D						Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	03/14/22 12:12	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	50.0		mg/Kg		Prepared	03/14/22 12:12 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/11/22 22:14	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U U *-	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/11/22 22:14 03/11/22 22:14	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U U *-	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/11/22 22:14 03/11/22 22:14	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U U *-	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/11/22 22:14 03/11/22 22:14 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 <80.0 %Recovery 98 105	RO) (GC) Qualifier U U*- U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/11/22 22:14 03/11/22 22:14 Analyzed 03/11/22 22:14	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 **Recovery 98 105 romatography -	RO) (GC) Qualifier U U*- U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/11/22 22:14 03/11/22 22:14 Analyzed 03/11/22 22:14	Dil Fac

Client Sample ID: BH01

Date Collected: 03/03/22 11:07 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/07/22 12:57	03/09/22 23:24	1

Eurofins Carlsbad

Lab Sample ID: 890-2040-2

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH01 Lab Sample ID: 890-2040-2

Date Collected: 03/03/22 11:07
Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
---	--------------------

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/07/22 12:57	03/09/22 23:24	1

Method: Total	BTEX - Total BTI	EX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	ma/Ka			03/10/22 16:12	1

Mothod: 8015 NM -	Diosal Range	Organice	(DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/14/22 12:12	1

Mothod: 904ED N	IM Discol	Dange Ore	raniaa /	DBO) /	CCI
Method: 8015B N	AIM - DIESEL	Range Org	janicə (i		GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Anaiyzea
1-Chlorooctane	118		70 - 130		03/04/22 15:08	03/11/22 23:18
o-Terphenyl	123		70 - 130	(03/04/22 15:08	03/11/22 23:18

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualit		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9220	99.2	mg/Kg			03/09/22 12:55	20

Client Sample ID: BH02

Date Collected: 03/03/22 11:10

Lab Sample ID: 890-2040-3

Matrix: Solid

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 8021B -	Volatile	Organic (Compounds (GC)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/09/22 23:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/07/22 12:57	03/09/22 23:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Un	it	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mo	ı/Ka			03/10/22 16:12	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/14/22 12:12	1

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Lab Sample ID: 890-2040-3

Lab Sample ID: 890-2040-4

Matrix: Solid

Job ID: 890-2040-1

Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				03/04/22 15:08	03/11/22 23:39	1
o-Terphenyl	79		70 - 130				03/04/22 15:08	03/11/22 23:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								03/09/22 09:22	

Client Sample ID: BH02

Date Collected: 03/03/22 11:20

Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	
Toluene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 00:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/10/22 00:05	1
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
•									
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 12:12	Dil Fac
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH . Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U		MDL	mg/Kg	D_	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			03/14/22 12:12	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:01	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	03/14/22 12:12 Analyzed	
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:01	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:01 03/12/22 00:01	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:01 03/12/22 00:01	Dil Fac

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3/14/2022

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Collected: 03/03/22 11:20 Date Received: 03/03/22 15:10

Sample Depth: 4

Lab Sample ID: 890-2040-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	8350		100		mg/Kg			03/09/22 09:31	20		

Client Sample ID: BH03 Lab Sample ID: 890-2040-5 **Matrix: Solid**

Date Collected: 03/03/22 11:37 Date Received: 03/03/22 15:10

Sample Depth: 2

Analyte

C10-C28)

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 00:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/07/22 12:57	03/10/22 00:25	1

Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Rai	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	1

MDL Unit

mg/Kg

Prepared

03/04/22 15:08

Analyzed

03/12/22 00:22

Result Qualifier

<50.0 U *-

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	03/04/22 15:08	03/12/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130		03/04/22 15:08	03/12/22 00:22	1
o-Terphenyl	78		70 - 130		03/04/22 15:08	03/12/22 00:22	1

50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3310		49.7		mg/Kg			03/09/22 09:40	10

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Dil Fac

Lab Sample ID: 890-2040-6

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH03

Date Collected: 03/03/22 11:40 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	•
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 00:46	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	•
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 00:46	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 00:46	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 00:46	:
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/10/22 16:12	-
Mathada 0045 NM - Diagal Barray	· Ourseiss (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH				MIDE			Frepareu	Allalyzeu	Diriac
iotal II II								03/14/22 12:12	
-	-00.0	Ü	50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Ran			50.0		ilig/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D		50.0 RL	MDL		D	Prepared	03/14/22 12:12 Analyzed	
	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 03/04/22 15:08		Dil Fac
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u> </u>	03/04/22 15:08	Analyzed 03/12/22 00:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U U *-	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08	Analyzed 03/12/22 00:44 03/12/22 00:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U U *-	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08	Analyzed 03/12/22 00:44 03/12/22 00:44 03/12/22 00:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U U *-	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	Analyzed 03/12/22 00:44 03/12/22 00:44 03/12/22 00:44 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 <70.0 %Recovery 77 83	Qualifier U Calculation U Calculation U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70.130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	Analyzed 03/12/22 00:44 03/12/22 00:44 03/12/22 00:44 Analyzed 03/12/22 00:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 %Recovery 77 83 omatography -	Qualifier U Calculation U Calculation U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70.130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	Analyzed 03/12/22 00:44 03/12/22 00:44 03/12/22 00:44 Analyzed 03/12/22 00:44	Dil Fac

Client Sample ID: BH04

Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/07/22 12:57	03/10/22 01:06	

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Lab Sample ID: 890-2040-7

Matrix: Solid

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Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Lab Sample ID: 890-2040-7

Matrix: Solid

Sample Depth: 0.5

Client Sample ID: BH04

Date Collected: 03/03/22 09:25

Date Received: 03/03/22 15:10

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	03/07/22 12:57	03/10/22 01:06	1

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397 U	0.00397	ma/Ka			03/10/22 16:12	1

Γ	
BASALS SIS OCAP NIBA	Disasi Danas Organica (DDO) (CC)

Michiga do la Mili - Diesel Range C	riganics (Dito) (GG)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 II	50.0	ma/Ka			03/14/22 12:12	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Pro	epared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	03/04	1/22 15:08	03/12/22 01:05	1
o-Terphenyl	65	S1-	70 - 130	03/04	4/22 15:08	03/12/22 01:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.3	F1	4.96		mg/Kg			03/09/22 16:05	1

Client Sample ID: BH04 Lab Sample ID: 890-2040-8 **Matrix: Solid**

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Sample Depth: 4

N/1 = 4 ls = = al .	OCCAP V	-1-4:1- (\	compounds	α
i wethoa:	OUZID - V	oiatile t	Jroanic C	ombounds:	IGG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/07/22 12:57	03/10/22 01:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/10/22 01:26	1

ſ		
	Method: Total BTEX - Total BTEX Calculation	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/K			03/10/22 16:12	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/14/22 12:12	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH04

Lab Sample ID: 890-2040-8 Date Collected: 03/03/22 09:30 Matrix: Solid

Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/04/22 15:08	03/12/22 01:26	1
o-Terphenyl	81		70 - 130				03/04/22 15:08	03/12/22 01:26	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		5.00		mg/Kg			03/09/22 16:23	1

Client Sample ID: BH05 Lab Sample ID: 890-2040-9 Matrix: Solid

Date Collected: 03/03/22 09:35 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	302	S1+	70 - 130				03/07/22 12:57	03/10/22 01:47	1
1,4-Difluorobenzene (Surr)	273	S1+	70 - 130				03/07/22 12:57	03/10/22 01:47	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	O1161							
• •	Nosuit	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 12:12	Dil Fac
Total TPH	<50.0	U		MDL		<u>D</u>	Prepared		
	<50.0	U		MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			03/14/22 12:12	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (DI Result	RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	03/14/22 12:12 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (DI Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 01:48	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (DI Result <50.0 <50.0	CRO) (GC) Qualifier U V*-	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 01:48 03/12/22 01:48	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (DI Result <50.0 <50.0 <50.0	CRO) (GC) Qualifier U V*-	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 01:48 03/12/22 01:48	1 Dil Fac

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH05 Lab Sample ID: 890-2040-9

Date Collected: 03/03/22 09:35
Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	5.80		4.98		mg/Kg			03/09/22 16:29	1

Client Sample ID: BH05

Date Collected: 03/03/22 09:40

Lab Sample ID: 890-2040-10

Matrix: Solid

Date Collected: 03/03/22 09:40 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 02:07	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 02:07	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 02:07	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 02:07	
· Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/10/22 16:12	
Method: 8015 NM - Diesel Range	organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	70		70 - 130				03/04/22 15:08	03/12/22 02:10	
o-Terphenyl	73		70 - 130				03/04/22 15:08	03/12/22 02:10	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			5.00		mg/Kg			03/09/22 16:52	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Project/Site: RDU 11

Client Sample ID: BH06 Lab Sample ID: 890-2040-11 Date Collected: 03/03/22 09:45 Matrix: Solid

Date Received: 03/03/22 15:10 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 03:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/07/22 12:57	03/10/22 03:29	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/10/22 16:12	1
Mathadi 2015 NM - Diagal Dansa	o Overenies (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	DI.	MDI	Unit	D			
			KL	MDL		U	Prepared	Analyzed	Dil Fac
				MIDL			Prepared	Analyzed 03/14/22 12:12	Dil Fac
Total TPH	<50.0		50.0	MDL	mg/Kg		Prepared	Analyzed 03/14/22 12:12	
	<50.0	U		MDL			Prepared		
Total TPH	<50.0	U		MDL	mg/Kg	<u>D</u>	Prepared		1
Total TPH Method: 8015B NM - Diesel Rang	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			03/14/22 12:12	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D Result	U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	03/14/22 12:12 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (D Result <50.0	RO) (GC) Qualifier U U *-	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D Result <50.0 <50.0	CONTROL (GC) Qualifier U U*-	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52	Dil Fac 1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	CONTROL (GC) Qualifier U U*-	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	CONTROL (GC) Qualifier U U*-	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <77	CONTROL (GC) Qualifier U U*- U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52 Analyzed 03/12/22 02:52	1 Dil Fac 1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D Result <50.0 <50.0 <50.0 <79 77 omatography -	CONTROL (GC) Qualifier U U*- U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52 Analyzed 03/12/22 02:52	Dil Fac 1 1 1 Dil Fac 1

Lab Sample ID: 890-2040-12 Client Sample ID: BH06

Date Collected: 03/03/22 09:50 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 03:50	1

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Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH06 Lab Sample ID: 890-2040-12

Date Collected: 03/03/22 09:50
Date Received: 03/03/22 15:10

Sample Depth: 4

ds (GC) (Continued)

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	03/07/22 12:57	03/10/22 03:50	1

Method: Total	BTEX - Total	BTEX Calculati	on

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			_	03/10/22 16:12	1

Mothod: 8015 NM	Diosal Range	Organice	(DRO) (GC)

Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	n	ma/Ka			03/14/22 12:12	1	

11 (I COATED NO.		•	(DDO)	
Method: 8015B NN	⊢- Diesel Range	Organics	(DKO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	03	3/04/22 15:08	03/12/22 03:14	1
o-Terphenyl	78		70 - 130	03	3/04/22 15:08	03/12/22 03:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4	5.04	mg/Kg			03/09/22 17:16	1

Client Sample ID: BH07

Date Collected: 03/03/22 09:55

Lab Sample ID: 890-2040-13

Matrix: Solid

Date Collected: 03/03/22 09:55 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Michiga ouz ID - Volatile Orga	inc compounds	(30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/07/22 12:57	03/10/22 04:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/07/22 12:57	03/10/22 04:10	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			03/10/22 16:12	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		-	03/14/22 12:12	1

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Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH07 Lab Sample ID: 890-2040-13

Date Collected: 03/03/22 09:55 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/04/22 15:08	03/12/22 03:35	1
o-Terphenyl	91		70 - 130				03/04/22 15:08	03/12/22 03:35	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.01		4.98		mg/Kg			03/09/22 17:21	1

Lab Sample ID: 890-2040-14 **Client Sample ID: BH07** Matrix: Solid

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 04:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 04:31	1
Method: Total BTEX - Total BTEX Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404		0.00404		mg/Kg			03/10/22 16:12	1
Total BTEX Method: 8015 NM - Diesel Range	<0.00404 e Organics (DR	U (GC)	0.00404					03/10/22 16:12	·
Total BTEX Method: 8015 NM - Diesel Range	<0.00404 e Organics (DR	U		MDL	Unit	D	Prepared	03/10/22 16:12 Analyzed	1 Dil Fac
Total BTEX	<0.00404 e Organics (DR	O) (GC) Qualifier	0.00404	MDL		D	Prepared		
Total BTEX Method: 8015 NM - Diesel Range Analyte	<0.00404 e Organics (DR) Result <50.0	U O) (GC) Qualifier U	0.00404	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	<0.00404 e Organics (DR) Result <50.0 ge Organics (DI)	U O) (GC) Qualifier U	0.00404	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	<0.00404 e Organics (DR) Result <50.0 ge Organics (DI)	U O) (GC) Qualifier U RO) (GC) Qualifier	0.00404 RL 50.0		Unit mg/Kg			Analyzed 03/14/22 12:12	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	<0.00404 e Organics (DR) Result <50.0 ge Organics (D) Result	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00404 RL 50.0		Unit mg/Kg		Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00404 e Organics (DR) Result <50.0 ge Organics (D) Result <50.0	U O) (GC) Qualifier U RO) (GC) Qualifier U U *-	0.00404 RL 50.0 RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57	Dil Fac Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00404 e Organics (DR) Result <50.0 ge Organics (D) Result <50.0 <50.0 <50.0	U O) (GC) Qualifier U RO) (GC) Qualifier U U *-	0.00404 RL 50.0 RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57 03/12/22 03:57	Dil Fac Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00404 e Organics (DR) Result <50.0 ge Organics (D) Result <50.0 <50.0 <50.0	U O) (GC) Qualifier U RO) (GC) Qualifier U U *-	0.00404 RL 50.0 RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57 03/12/22 03:57	Dil Fac Dil Fac 1 1 1

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Lab Sample ID: 890-2040-14

Client Sample ID: BH07

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 300.0 - Anions, Ion Chron	natography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.01		ma/Ka			03/09/22 17:27	1

Client Sample ID: BH08 Lab Sample ID: 890-2040-15 Matrix: Solid

Date Collected: 03/03/22 10:05 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 04:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 04:51	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		ma/Ka			03/10/22 16:12	

Analyte	Result	Qualifier	KL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 04:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 04:18	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 04:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	85		70 - 130				03/04/22 15:08	03/12/22 04:18	
o-Terphenyl	88		70 - 130				03/04/22 15:08	03/12/22 04:18	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.90		4.99		mg/Kg			03/09/22 17:33	1

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Released to Imaging: 3/20/2024 8243150 AM

Lab Sample ID: 890-2040-16

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH08

Date Collected: 03/03/22 10:10 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/07/22 12:57	03/10/22 05:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 05:11	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/10/22 16:12	1
Analyte Total TPH	<50.0	Qualifier U		MIDL	mg/Kg	D	Prepared	Analyzed 03/14/22 12:12	Dil Fac
	\50.0	U	50.0		ilig/Kg			03/14/22 12.12	'
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 04:40	
									1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 04:40	
	<50.0 <50.0		50.0 50.0		mg/Kg		03/04/22 15:08 03/04/22 15:08	03/12/22 04:40 03/12/22 04:40	1
C10-C28)		U							1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0				03/04/22 15:08	03/12/22 04:40	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 **Recovery 0.4	U Qualifier	50.0 <i>Limits</i>				03/04/22 15:08 Prepared	03/12/22 04:40 Analyzed	Dil Fac
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 0.4 2 pmatography -	Qualifier S1- S1- Soluble	50.0 Limits 70 - 130				03/04/22 15:08 Prepared 03/04/22 15:08 03/04/22 15:08	03/12/22 04:40 Analyzed 03/12/22 04:40	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 0.4 2 pmatography -	Qualifier S1- S1-	50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u> _	03/04/22 15:08 Prepared 03/04/22 15:08	03/12/22 04:40 Analyzed 03/12/22 04:40	1 Dil Fac

Client Sample ID: BH09

Date Collected: 03/03/22 10:15 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/07/22 12:57	03/10/22 05:32	1

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Lab Sample ID: 890-2040-17

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10

12

13

Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH09 Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15
Date Received: 03/03/22 15:10
Matrix: Solid

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130				03/07/22 12:57	03/10/22 05:32	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/10/22 16:12	1
- Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/14/22 12:12	1
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
C10-C28)									
		U	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.00		mg/Kg			03/09/22 17:45	1

70 - 130

70 - 130

61 S1-

58 S1-

<49.8 U

Client Sample ID: BH09

Lab Sample ID: 890-2040-18

Matrix: Solid

Date Collected: 03/03/22 10:25 Date Received: 03/03/22 15:10

Sample Depth: 4

Total TPH

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/07/22 12:57	03/10/22 05:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 05:52	1
Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

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03/14/22 12:12

49.8

mg/Kg

2

3

7

9

12

13

03/04/22 15:08

03/04/22 15:08

03/12/22 05:01

03/12/22 05:01

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH09

Lab Sample ID: 890-2040-18 Date Collected: 03/03/22 10:25 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *-	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/04/22 15:08	03/12/22 05:23	1
o-Terphenyl	90		70 - 130				03/04/22 15:08	03/12/22 05:23	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		5.05		mg/Kg		-	03/09/22 18:03	

Lab Sample ID: 890-2040-19 **Client Sample ID: BH10** Matrix: Solid

Date Collected: 03/03/22 10:30

Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/07/22 12:57	03/10/22 06:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 06:13	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/10/22 16:12	1
-			0.00001		99			00/10/22 10.12	'
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)	0.0001		99			00/10/22 10:12	,
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
	•	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result < 50.0	Qualifier U	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U	RL		Unit	D_	Prepared Prepared	Analyzed	Dil Fac
Analyte	Result <50.0	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg		<u> </u>	Analyzed 03/14/22 12:12	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 Ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg		Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	RL		Unit mg/Kg		Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *-	RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45 03/12/22 05:45	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U U *-	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *-	RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45 03/12/22 05:45	Dil Fac Dil Fac 1 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *-	RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45 03/12/22 05:45	Dil Fac Dil Fac 1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH10 Lab Sample ID: 890-2040-19

Date Collected: 03/03/22 10:30 Matrix: Solid
Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.95		4.97		mg/Kg			03/09/22 18:09	1

Client Sample ID: BH10

Date Collected: 03/03/22 10:35

Lab Sample ID: 890-2040-20

Matrix: Solid

Date Collected: 03/03/22 10:35 Date Received: 03/03/22 15:10

Sample Depth: 4

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 06:33	
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130				03/07/22 12:57	03/10/22 06:33	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 06:33	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	70.6		50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	
Diesel Range Organics (Over C10-C28)	70.6	*_	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	•
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	0.03	S1-	70 - 130				03/04/22 15:08	03/12/22 06:06	
o-Terphenyl	91		70 - 130				03/04/22 15:08	03/12/22 06:06	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							

03/09/22 18:26

4.98

mg/Kg

2

3

4

J

7

9

11

3

34.6

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED.	DED 7.4	Percent Surrogate Recovery (Acceptance Lin
ah Oamada ID	Olicant Committee ID	BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2040-1	BH01	103	98	
390-2040-1 MS	BH01	100	99	
890-2040-1 MSD	BH01	101	99	
390-2040-2	BH01	105	97	
390-2040-3	BH02	101	96	
390-2040-4	BH02	109	101	
390-2040-5	BH03	108	99	
390-2040-6	BH03	108	98	
390-2040-7	BH04	107	99	
90-2040-8	BH04	110	101	
90-2040-9	BH05	302 S1+	273 S1+	
90-2040-10	BH05	108	98	
90-2040-11	BH06	109	100	
90-2040-12	BH06	108	98	
90-2040-13	BH07	105	97	
0-2040-14	BH07	109	98	
90-2040-15	BH08	108	98	
0-2040-16	внов	106	98	
0-2040-17	BH09	110	102	
90-2040-18	ВН09	112	98	
90-2040-19	BH10	103	98	
90-2040-20	BH10	104	98	
CS 880-20908/1-A	Lab Control Sample	99	100	
CSD 880-20908/2-A	Lab Control Sample Dup	99	100	
B 880-20906/5-A	Method Blank	99	93	
B 880-20908/5-A	Method Blank	95	93	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2040-1	BH01	98	105	
890-2040-1 MS	BH01	108	107	
890-2040-1 MSD	BH01	112	107	
890-2040-2	BH01	118	123	
890-2040-3	BH02	74	79	
890-2040-4	BH02	82	86	
890-2040-5	BH03	72	78	
890-2040-6	BH03	77	83	
890-2040-7	BH04	65 S1-	65 S1-	
890-2040-8	BH04	80	81	
890-2040-9	BH05	78	72	
890-2040-10	BH05	70	73	
890-2040-11	BH06	79	77	

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2040-12	BH06	75	78	
890-2040-13	BH07	87	91	
890-2040-14	BH07	98	101	
890-2040-15	BH08	85	88	
890-2040-16	BH08	0.4 S1-	2 S1-	
890-2040-17	BH09	61 S1-	58 S1-	
890-2040-18	BH09	87	90	
890-2040-19	BH10	61 S1-	62 S1-	
890-2040-20	BH10	0.03 S1-	91	
LCS 880-20924/2-A	Lab Control Sample	101	103	
LCSD 880-20924/3-A	Lab Control Sample Dup	113	115	
MB 880-20924/1-A	Method Blank	101	109	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-2040-1 SDG: 31403360.036.31403360.035 Project/Site: RDU 11

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20906/5-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20906

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/22 08:00	03/09/22 10:58	1

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

03/09/22 08:00 03/09/22 10:58 03/09/22 08:00 03/09/22 10:58

Analyzed

Prepared

Client Sample ID: Method Blank

Prep Type: Total/NA

Dil Fac

Prep Batch: 20908

Lab	Sa	mp	le	ID:	MB	880-20908/5-A
	_	_		_		

Matrix: Solid

Analysis Batch: 21187

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 22:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 22:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/07/2	2 12:57	03/09/22 22:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/07/2	2 12:57	03/09/22 22:41	1

Lab Sample ID: LCS 880-20908/1-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 20908

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1006		mg/Kg		101	70 - 130	
Toluene	0.100	0.09711		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09592		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1986		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09573		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-20908/2-A

Matr

Anal

trix: Solid			•	Prep 7	Type: Tot	al/NA
alysis Batch: 21187				Prep	Batch:	20908
	Spike	LCSD LCSD		%Rec.		RPD
			 - ~-			

Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1030 mg/Kg 103 70 - 130 35

QC Sample Results

Job ID: 890-2040-1 Client: WSP USA Inc. SDG: 31403360.036.31403360.035 Project/Site: RDU 11

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-20908/2-A

Matrix: Solid Analysis Batch: 21187 **Client Sample ID: Lab Control Sample Dup**

Prep Type: Total/NA Prep Batch: 20908

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09990		mg/Kg		100	70 - 130	3	35
Ethylbenzene	0.100	0.09791		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2036		mg/Kg		102	70 - 130	2	35
o-Xylene	0.100	0.09864		mg/Kg		99	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2040-1 MS

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 20908

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0990	0.1074		mg/Kg		108	70 - 130	
Toluene	<0.00199	U	0.0990	0.1038		mg/Kg		105	70 - 130	
Ethylbenzene	<0.00199	U	0.0990	0.1022		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2108		mg/Kg		106	70 - 130	
o-Xylene	<0.00199	U	0.0990	0.1024		mg/Kg		103	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-2040-1 MSD

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 20908

7 mm, 3000 = 0000 mm = 1100											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0994	0.1022		mg/Kg		103	70 - 130	5	35
Toluene	<0.00199	U	0.0994	0.09897		mg/Kg		100	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0994	0.09699		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2012		mg/Kg		101	70 - 130	5	35
o-Xylene	<0.00199	U	0.0994	0.09863		mg/Kg		99	70 - 130	4	35
1											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20924/1-A

Matrix: Solid

Analysis Batch: 21381

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 20924

мв мв Result Qualifier MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/04/22 15:08 03/11/22 21:09

(GRO)-C6-C10

Job ID: 890-2040-1 Client: WSP USA Inc. SDG: 31403360.036.31403360.035 Project/Site: RDU 11

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-20924/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-20924/2-A

Matrix: Solid

Analysis Batch: 21381

Analysis Batch: 21381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20924

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/04/22 15:08	03/11/22 21:09	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/04/22 15:08	03/11/22 21:09	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	101		70 - 130	03/04/22 15:08	03/11/22 21:09	1
l	o-Terphenyl	109		70 - 130	03/04/22 15:08	03/11/22 21:09	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20924

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 962.5 96 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 686.5 *mg/Kg 69 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-20924/3-A

Matrix: Solid

Analysis Batch: 21381

Prep Type: Total/NA

Prep Batch: 20924

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1041		mg/Kg		104	70 - 130	8	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	768.2		mg/Kg		77	70 - 130	11	20	
C10-C28)										

1-Chlorooctane

Surrogate

o-Terphenyl

LCSD LCSD %Recovery Qualifier Limits 113 70 - 130 115 70 - 130

Lab Sample ID: 890-2040-1 MS

Matrix: Solid

Analysis Batch: 21381

Client Sample ID: BH01

Prep Type: Total/NA Prep Batch: 20924

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1019		mg/Kg		99	70 - 130	
Diesel Range Organics (Over	<50.0	U *-	1000	801.0		mg/Kg		78	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	107		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2040-1 MSD **Matrix: Solid**

Analysis Batch: 21381

Client Sample ID: BH01

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH04

Client Sample ID: BH04

Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 20924

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1099		mg/Kg		107	70 - 130	8	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *-	998	821.3		mg/Kg		80	70 - 130	3	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21026/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 21137

мв мв

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/k	(g		03/09/22 15:48	1

Lab Sample ID: LCS 880-21026/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	231.2		mg/Kg		92	90 - 110	

Lab Sample ID: LCSD 880-21026/3-A

Matrix: Solid

Analysis Batch: 21137

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	243.8		ma/Ka		98	90 - 110		20	

Lab Sample ID: 890-2040-7 MS

Matrix: Solid

Analysis Batch: 21137

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	45.3	F1	248	261.4	F1	ma/Ka		87	90 110		_

Lab Sample ID: 890-2040-7 MSD

Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 21137											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	45.3	F1	248	262.7	F1	mg/Kg		88	90 - 110	1	20

Lab Sample ID: 890-2040-17 MS

Lab Sample ID: 890-2040-17 MSD

QC Sample Results

Job ID: 890-2040-1 Client: WSP USA Inc. SDG: 31403360.036.31403360.035 Project/Site: RDU 11

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: BH09 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 21137

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	10.4		250	281.4		mg/Kg		108	90 - 110	

Client Sample ID: BH09 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 21137

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	10.4		250	273.4		mg/Kg		105	90 - 110	3	20

Lab Sample ID: MB 880-21025/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			03/09/22 01:05	1

Lab Sample ID: LCS 880-21025/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 21139

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	254.2		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-21025/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 21139

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	 250	252.3		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-2040-1 MS Client Sample ID: BH01 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 21139

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	8700		4990	137/10		ma/Ka	_	101	90 110	

Lab Sample ID: 890-2040-1 MSD

Matrix: Solid

Analysis Batch: 21139

Analysis Baton. 21100											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	8700		4990	13490		mg/Kg		96	90 - 110	2	20

Eurofins Carlsbad

Client Sample ID: BH01

Prep Type: Soluble

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

GC VOA

Prep Batch: 20906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20906/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2040-1	BH01	Total/NA	Solid	5035	
890-2040-2	BH01	Total/NA	Solid	5035	
890-2040-3	BH02	Total/NA	Solid	5035	
890-2040-4	BH02	Total/NA	Solid	5035	
890-2040-5	BH03	Total/NA	Solid	5035	
890-2040-6	BH03	Total/NA	Solid	5035	
890-2040-7	BH04	Total/NA	Solid	5035	
890-2040-8	BH04	Total/NA	Solid	5035	
890-2040-9	BH05	Total/NA	Solid	5035	
890-2040-10	BH05	Total/NA	Solid	5035	
890-2040-11	BH06	Total/NA	Solid	5035	
890-2040-12	BH06	Total/NA	Solid	5035	
890-2040-13	BH07	Total/NA	Solid	5035	
890-2040-14	BH07	Total/NA	Solid	5035	
890-2040-15	BH08	Total/NA	Solid	5035	
890-2040-16	BH08	Total/NA	Solid	5035	
890-2040-17	BH09	Total/NA	Solid	5035	
890-2040-18	BH09	Total/NA	Solid	5035	
890-2040-19	BH10	Total/NA	Solid	5035	
890-2040-20	BH10	Total/NA	Solid	5035	
MB 880-20908/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20908/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20908/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2040-1 MS	BH01	Total/NA	Solid	5035	
890-2040-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 21187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8021B	20908
890-2040-2	BH01	Total/NA	Solid	8021B	20908
890-2040-3	BH02	Total/NA	Solid	8021B	20908
890-2040-4	BH02	Total/NA	Solid	8021B	20908
890-2040-5	BH03	Total/NA	Solid	8021B	20908
890-2040-6	BH03	Total/NA	Solid	8021B	20908
890-2040-7	BH04	Total/NA	Solid	8021B	20908
890-2040-8	BH04	Total/NA	Solid	8021B	20908
890-2040-9	BH05	Total/NA	Solid	8021B	20908
890-2040-10	BH05	Total/NA	Solid	8021B	20908
890-2040-11	BH06	Total/NA	Solid	8021B	20908
890-2040-12	BH06	Total/NA	Solid	8021B	20908
890-2040-13	BH07	Total/NA	Solid	8021B	20908
890-2040-14	BH07	Total/NA	Solid	8021B	20908
890-2040-15	BH08	Total/NA	Solid	8021B	20908
890-2040-16	BH08	Total/NA	Solid	8021B	20908
890-2040-17	BH09	Total/NA	Solid	8021B	20908
890-2040-18	ВН09	Total/NA	Solid	8021B	20908
890-2040-19	BH10	Total/NA	Solid	8021B	20908

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Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

GC VOA (Continued)

Analysis Batch: 21187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-20	BH10	Total/NA	Solid	8021B	20908
MB 880-20906/5-A	Method Blank	Total/NA	Solid	8021B	20906
MB 880-20908/5-A	Method Blank	Total/NA	Solid	8021B	20908
LCS 880-20908/1-A	Lab Control Sample	Total/NA	Solid	8021B	20908
LCSD 880-20908/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20908
890-2040-1 MS	BH01	Total/NA	Solid	8021B	20908
890-2040-1 MSD	BH01	Total/NA	Solid	8021B	20908

Analysis Batch: 21336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	Total BTEX	
890-2040-2	BH01	Total/NA	Solid	Total BTEX	
890-2040-3	BH02	Total/NA	Solid	Total BTEX	
890-2040-4	BH02	Total/NA	Solid	Total BTEX	
890-2040-5	BH03	Total/NA	Solid	Total BTEX	
890-2040-6	BH03	Total/NA	Solid	Total BTEX	
890-2040-7	BH04	Total/NA	Solid	Total BTEX	
890-2040-8	BH04	Total/NA	Solid	Total BTEX	
890-2040-9	BH05	Total/NA	Solid	Total BTEX	
890-2040-10	BH05	Total/NA	Solid	Total BTEX	
890-2040-11	BH06	Total/NA	Solid	Total BTEX	
890-2040-12	BH06	Total/NA	Solid	Total BTEX	
890-2040-13	BH07	Total/NA	Solid	Total BTEX	
890-2040-14	BH07	Total/NA	Solid	Total BTEX	
890-2040-15	BH08	Total/NA	Solid	Total BTEX	
890-2040-16	BH08	Total/NA	Solid	Total BTEX	
890-2040-17	BH09	Total/NA	Solid	Total BTEX	
890-2040-18	ВН09	Total/NA	Solid	Total BTEX	
890-2040-19	BH10	Total/NA	Solid	Total BTEX	
890-2040-20	BH10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2040-1	BH01	Total/NA	Solid	8015NM Prep	
890-2040-2	BH01	Total/NA	Solid	8015NM Prep	
890-2040-3	BH02	Total/NA	Solid	8015NM Prep	
890-2040-4	BH02	Total/NA	Solid	8015NM Prep	
890-2040-5	BH03	Total/NA	Solid	8015NM Prep	
890-2040-6	BH03	Total/NA	Solid	8015NM Prep	
890-2040-7	BH04	Total/NA	Solid	8015NM Prep	
890-2040-8	BH04	Total/NA	Solid	8015NM Prep	
890-2040-9	BH05	Total/NA	Solid	8015NM Prep	
890-2040-10	BH05	Total/NA	Solid	8015NM Prep	
890-2040-11	BH06	Total/NA	Solid	8015NM Prep	
890-2040-12	BH06	Total/NA	Solid	8015NM Prep	
890-2040-13	BH07	Total/NA	Solid	8015NM Prep	
890-2040-14	BH07	Total/NA	Solid	8015NM Prep	
890-2040-15	BH08	Total/NA	Solid	8015NM Prep	
890-2040-16	BH08	Total/NA	Solid	8015NM Prep	

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

GC Semi VOA (Continued)

Prep Batch: 20924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-17	BH09	Total/NA	Solid	8015NM Prep	
890-2040-18	BH09	Total/NA	Solid	8015NM Prep	
890-2040-19	BH10	Total/NA	Solid	8015NM Prep	
890-2040-20	BH10	Total/NA	Solid	8015NM Prep	
MB 880-20924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2040-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2040-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8015B NM	20924
890-2040-2	BH01	Total/NA	Solid	8015B NM	20924
890-2040-3	BH02	Total/NA	Solid	8015B NM	20924
890-2040-4	BH02	Total/NA	Solid	8015B NM	20924
890-2040-5	BH03	Total/NA	Solid	8015B NM	20924
890-2040-6	BH03	Total/NA	Solid	8015B NM	20924
890-2040-7	BH04	Total/NA	Solid	8015B NM	20924
890-2040-8	BH04	Total/NA	Solid	8015B NM	20924
890-2040-9	BH05	Total/NA	Solid	8015B NM	20924
890-2040-10	BH05	Total/NA	Solid	8015B NM	20924
890-2040-11	BH06	Total/NA	Solid	8015B NM	20924
890-2040-12	BH06	Total/NA	Solid	8015B NM	20924
890-2040-13	BH07	Total/NA	Solid	8015B NM	20924
890-2040-14	BH07	Total/NA	Solid	8015B NM	20924
890-2040-15	BH08	Total/NA	Solid	8015B NM	20924
890-2040-16	BH08	Total/NA	Solid	8015B NM	20924
890-2040-17	BH09	Total/NA	Solid	8015B NM	20924
890-2040-18	BH09	Total/NA	Solid	8015B NM	20924
890-2040-19	BH10	Total/NA	Solid	8015B NM	20924
890-2040-20	BH10	Total/NA	Solid	8015B NM	20924
MB 880-20924/1-A	Method Blank	Total/NA	Solid	8015B NM	20924
LCS 880-20924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20924
LCSD 880-20924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20924
890-2040-1 MS	BH01	Total/NA	Solid	8015B NM	20924
890-2040-1 MSD	BH01	Total/NA	Solid	8015B NM	20924

Analysis Batch: 21529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2040-1	BH01	Total/NA	Solid	8015 NM	
890-2040-2	BH01	Total/NA	Solid	8015 NM	
890-2040-3	BH02	Total/NA	Solid	8015 NM	
890-2040-4	BH02	Total/NA	Solid	8015 NM	
890-2040-5	BH03	Total/NA	Solid	8015 NM	
890-2040-6	BH03	Total/NA	Solid	8015 NM	
890-2040-7	BH04	Total/NA	Solid	8015 NM	
890-2040-8	BH04	Total/NA	Solid	8015 NM	
890-2040-9	BH05	Total/NA	Solid	8015 NM	
890-2040-10	BH05	Total/NA	Solid	8015 NM	
890-2040-11	BH06	Total/NA	Solid	8015 NM	

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 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

GC Semi VOA (Continued)

Analysis Batch: 21529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-12	BH06	Total/NA	Solid	8015 NM	
890-2040-13	BH07	Total/NA	Solid	8015 NM	
890-2040-14	BH07	Total/NA	Solid	8015 NM	
890-2040-15	BH08	Total/NA	Solid	8015 NM	
890-2040-16	BH08	Total/NA	Solid	8015 NM	
890-2040-17	ВН09	Total/NA	Solid	8015 NM	
890-2040-18	BH09	Total/NA	Solid	8015 NM	
890-2040-19	BH10	Total/NA	Solid	8015 NM	
890-2040-20	BH10	Total/NA	Solid	8015 NM	
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HPLC/IC

Leach Batch: 21025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Soluble	Solid	DI Leach	
890-2040-2	BH01	Soluble	Solid	DI Leach	
890-2040-3	BH02	Soluble	Solid	DI Leach	
890-2040-4	BH02	Soluble	Solid	DI Leach	
890-2040-5	BH03	Soluble	Solid	DI Leach	
890-2040-6	BH03	Soluble	Solid	DI Leach	
MB 880-21025/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21025/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21025/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2040-1 MS	BH01	Soluble	Solid	DI Leach	
890-2040-1 MSD	BH01	Soluble	Solid	DI Leach	

Leach Batch: 21026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2040-7	BH04	Soluble	Solid	DI Leach	
890-2040-8	BH04	Soluble	Solid	DI Leach	
390-2040-9	BH05	Soluble	Solid	DI Leach	
390-2040-10	BH05	Soluble	Solid	DI Leach	
390-2040-11	BH06	Soluble	Solid	DI Leach	
390-2040-12	BH06	Soluble	Solid	DI Leach	
90-2040-13	BH07	Soluble	Solid	DI Leach	
90-2040-14	BH07	Soluble	Solid	DI Leach	
90-2040-15	BH08	Soluble	Solid	DI Leach	
90-2040-16	BH08	Soluble	Solid	DI Leach	
90-2040-17	BH09	Soluble	Solid	DI Leach	
90-2040-18	BH09	Soluble	Solid	DI Leach	
90-2040-19	BH10	Soluble	Solid	DI Leach	
90-2040-20	BH10	Soluble	Solid	DI Leach	
/IB 880-21026/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-21026/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-21026/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-2040-7 MS	BH04	Soluble	Solid	DI Leach	
90-2040-7 MSD	BH04	Soluble	Solid	DI Leach	
90-2040-17 MS	BH09	Soluble	Solid	DI Leach	
390-2040-17 MSD	BH09	Soluble	Solid	DI Leach	

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 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

HPLC/IC

Analysis Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-7	BH04	Soluble	Solid	300.0	21026
890-2040-8	BH04	Soluble	Solid	300.0	21026
890-2040-9	BH05	Soluble	Solid	300.0	21026
890-2040-10	BH05	Soluble	Solid	300.0	21026
890-2040-11	BH06	Soluble	Solid	300.0	21026
890-2040-12	BH06	Soluble	Solid	300.0	21026
890-2040-13	BH07	Soluble	Solid	300.0	21026
890-2040-14	BH07	Soluble	Solid	300.0	21026
890-2040-15	BH08	Soluble	Solid	300.0	21026
890-2040-16	BH08	Soluble	Solid	300.0	21026
890-2040-17	BH09	Soluble	Solid	300.0	21026
890-2040-18	BH09	Soluble	Solid	300.0	21026
890-2040-19	BH10	Soluble	Solid	300.0	21026
890-2040-20	BH10	Soluble	Solid	300.0	21026
MB 880-21026/1-A	Method Blank	Soluble	Solid	300.0	21026
LCS 880-21026/2-A	Lab Control Sample	Soluble	Solid	300.0	21026
LCSD 880-21026/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21026
890-2040-7 MS	BH04	Soluble	Solid	300.0	21026
890-2040-7 MSD	BH04	Soluble	Solid	300.0	21026
890-2040-17 MS	BH09	Soluble	Solid	300.0	21026
890-2040-17 MSD	BH09	Soluble	Solid	300.0	21026

Analysis Batch: 21139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Soluble	Solid	300.0	21025
890-2040-2	BH01	Soluble	Solid	300.0	21025
890-2040-3	BH02	Soluble	Solid	300.0	21025
890-2040-4	BH02	Soluble	Solid	300.0	21025
890-2040-5	BH03	Soluble	Solid	300.0	21025
890-2040-6	BH03	Soluble	Solid	300.0	21025
MB 880-21025/1-A	Method Blank	Soluble	Solid	300.0	21025
LCS 880-21025/2-A	Lab Control Sample	Soluble	Solid	300.0	21025
LCSD 880-21025/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21025
890-2040-1 MS	BH01	Soluble	Solid	300.0	21025
890-2040-1 MSD	BH01	Soluble	Solid	300.0	21025

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH01

Date Collected: 03/03/22 11:05 Date Received: 03/03/22 15:10

Lab Sample ID: 890-2040-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 22:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 01:31	CH	XEN MID

Lab Sample ID: 890-2040-2 **Client Sample ID: BH01**

Date Collected: 03/03/22 11:07

Date Received: 03/03/22 15:10

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 20908 Total/NA Prep 5.00 g 5 mL 03/07/22 12:57 KL XEN MID Total/NA 8021B 5 mL 03/09/22 23:24 XEN MID Analysis 1 5 mL 21187 KL Total/NA Total BTEX 21336 03/10/22 16:12 AJ XEN MID Analysis 1 Total/NA Analysis 8015 NM 21529 03/14/22 12:12 XEN MID Total/NA 20924 XEN MID Prep 8015NM Prep 10.01 g 03/04/22 15:08 DM 10 mL Total/NA Analysis 8015B NM 21381 03/11/22 23:18 AJ XEN MID Soluble XEN MID Leach DI Leach 5.04 g 50 mL 21025 03/07/22 10:32 CH Soluble Analysis 300.0 20 21139 03/09/22 12:55 CH XEN MID

Client Sample ID: BH02

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

Lab Sample ID: 890-2040-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 23:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		10			21139	03/09/22 09:22	CH	XEN MID

Client Sample ID: BH02

Date Collected: 03/03/22 11:20

Date Received: 03/03/22 15:10

Lab Sample ID:	890-2040-4
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Lab Sample ID: 890-2040-4

Matrix: Solid

Date Collected: 03/03/22 11:20 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 09:31	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-2040-5

Date Collected: 03/03/22 11:37 **Matrix: Solid**

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		10			21139	03/09/22 09:40	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-2040-6 Date Collected: 03/03/22 11:40 **Matrix: Solid**

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 10:06	CH	XEN MID

Lab Sample ID: 890-2040-7 Client Sample ID: BH04

Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	20924 21381	03/04/22 15:08 03/12/22 01:05	DM AJ	XEN MID XEN MID

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Page 34 of 49

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH04

Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10 Lab Sample ID: 890-2040-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	21026	03/07/22 10:38	СН	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:05	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-2040-8

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:23	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-2040-9

Date Collected: 03/03/22 09:35

Matrix: Solid

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:29	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-2040-10 Date Collected: 03/03/22 09:40 **Matrix: Solid**

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 02:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 02:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:52	CH	XEN MID

Eurofins Carlsbad

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH06

Date Collected: 03/03/22 09:45 Date Received: 03/03/22 15:10

Lab Sample ID: 890-2040-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 03:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:58	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-2040-12

Date Collected: 03/03/22 09:50

Date Received: 03/03/22 15:10

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 20908 Total/NA Prep 4.98 g 5 mL 03/07/22 12:57 KL XEN MID Total/NA 8021B 5 mL 03/10/22 03:50 KLXEN MID Analysis 1 5 mL 21187 Total/NA Total BTEX 21336 03/10/22 16:12 AJ XEN MID Analysis 1 Total/NA Analysis 8015 NM 21529 03/14/22 12:12 XEN MID Total/NA 20924 XEN MID Prep 8015NM Prep 10.02 g 03/04/22 15:08 DM 10 mL Total/NA Analysis 8015B NM 21381 03/12/22 03:14 AJ XEN MID Soluble XEN MID Leach DI Leach 4.96 g 50 mL 21026 03/07/22 10:38 CH Soluble Analysis 300.0 21137 03/09/22 17:16 CH XEN MID

Lab Sample ID: 890-2040-13 **Client Sample ID: BH07**

Date Collected: 03/03/22 09:55 Date Received: 03/03/22 15:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:21	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-2040-14

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH07

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10 Lab Sample ID: 890-2040-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	21026	03/07/22 10:38	СН	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:27	CH	XEN MID

Client Sample ID: BH08

Lab Sample ID: 890-2040-15

Date Collected: 03/03/22 10:05

Matrix: Solid

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 04:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:33	CH	XEN MID

Client Sample ID: BH08

Lab Sample ID: 890-2040-16

Date Collected: 03/03/22 10:10

Matrix: Solid

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:39	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	20924 21381	03/04/22 15:08 03/12/22 05:01	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Matrix: Solid

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Client: WSP USA Inc.

Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH09

Date Collected: 03/03/22 10:15 Date Received: 03/03/22 15:10 Lab Sample ID: 890-2040-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:45	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2040-18

Date Collected: 03/03/22 10:25 **Matrix: Solid**

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 05:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:03	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2040-19

Date Collected: 03/03/22 10:30

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 05:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:09	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2040-20

Date Collected: 03/03/22 10:35 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 06:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:26	CH	XEN MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pi	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	•	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
the agency does not of	ier ceruncation.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID

XEN MID

XEN MID

XEN MID

SW846

SW846

ASTM

Protocol References:

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2040-1	BH01	Solid	03/03/22 11:05	03/03/22 15:10	2
890-2040-2	BH01	Solid	03/03/22 11:07	03/03/22 15:10	4
890-2040-3	BH02	Solid	03/03/22 11:10	03/03/22 15:10	0.5
890-2040-4	BH02	Solid	03/03/22 11:20	03/03/22 15:10	4
890-2040-5	BH03	Solid	03/03/22 11:37	03/03/22 15:10	2
890-2040-6	BH03	Solid	03/03/22 11:40	03/03/22 15:10	4
890-2040-7	BH04	Solid	03/03/22 09:25	03/03/22 15:10	0.5
890-2040-8	BH04	Solid	03/03/22 09:30	03/03/22 15:10	4
890-2040-9	BH05	Solid	03/03/22 09:35	03/03/22 15:10	0.5
890-2040-10	BH05	Solid	03/03/22 09:40	03/03/22 15:10	4
890-2040-11	BH06	Solid	03/03/22 09:45	03/03/22 15:10	0.5
890-2040-12	BH06	Solid	03/03/22 09:50	03/03/22 15:10	4
890-2040-13	BH07	Solid	03/03/22 09:55	03/03/22 15:10	0.5
890-2040-14	BH07	Solid	03/03/22 10:00	03/03/22 15:10	4
890-2040-15	BH08	Solid	03/03/22 10:05	03/03/22 15:10	0.5
890-2040-16	BH08	Solid	03/03/22 10:10	03/03/22 15:10	4
890-2040-17	BH09	Solid	03/03/22 10:15	03/03/22 15:10	0.5
890-2040-18	BH09	Solid	03/03/22 10:25	03/03/22 15:10	4
890-2040-19	BH10	Solid	03/03/22 10:30	03/03/22 15:10	0.5
890-2040-20	BH10	Solid	03/03/22 10:35	03/03/22 15:10	4

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Chain of Custody

- A - Δ	· Colors	Relinquished-by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contropy for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contropy for the cost of samples of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:	ВН05	вно5	BH04	вн04	вноз	вноз	вно2	вно2	BH01	BH01	Sample Identification	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No		Temperature (°C): 1.7	SAMPLE RECEIPT Temp	Sampler's Name: Gilbert Moreno	nAB1728553778,nAB1728551205	Project Number: 31403360.036, 31403360.035	Project Name: RDU 11	Phone 281-702-2329	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: WSP	Project Manager: Joseph Hernandez	LABORATORIES
	NS	, P	shment of sam t of samples ar applied to each	be analyz)20:	S	S 3	S 3	S 3	S 3	S 3	S 3	S 3	S 3	S 3	Matrix Sa	(N/A)	NIA	8 - -		Temp Blank: ੴes		,nAB1728	1403360.0			05	eet		ez	0)
		sceiwed-by	ples constitund shall not a project and		8	3.3.22	3.3.22	3.3.22	3.3.22	3.2.22	3.2.22	3.2.22	3.2.22	3.2.22	3.2.22	Date Sampled t	Total C	Correcti	リアノ	The	No		551205	35							Hobbs,N
		Received-by⊹(Signature)	tes a vatid pu ssume any re a charge of \$8	CLP / SPL	8RCRA 13P	9:40	9:35	9:30	9:25	11:40	11:37	11:20	11:10	11:07	11:05	Time Sampled	Total Containers:	Correction Factor:	8	Thermometer ID	Wet Ice:	Due Date:	Rush	Routi	Tur	Email					Midland M (575-392-
		re)	rchase order from sponsibility for a for each sample	TCLP / SPLP 6010: 8RCRA	13PPM Texas 11	4	0.5	4	0.5	4	2	4	0.5	4	2	Depth (Feet)		0.2	نہ	ō	(Yes) No)ate:		Routine	Turn Around	Anna.Byers@wsp.com,	City, State ZII	Address	Company Nau	Bill (if different)	1,TX (432-704-5 7550) Phoenix,
	3/3		m client con			_		_	_	_				_		Numb				iner	S					ນwsp.co	C	53	×	nt) Jir	440) EL F AZ (480-3
	13/22	Date/Time	mpany to) or expense to Xenco,	Sb As B	` <u>}</u>	×	×	×	×	×	×	×	×	×	×	TPH (E	-								<u> </u>	m	ırlsbad, î	15 Buen	WPX Energy	Jim Raley	aso,TX (9 55-0900)
0 4	3:10		tenco, its affiliates incurred by the object to but not analyzed.	Ba Be Cd Cr	B Cd	×	×	×	×	×	×	×	×	×	×	Chloric	de (El	PA 3	300.0))							Carlsbad, NM 88220	5315 Buena Vista Dr.	Jy		Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (81
		Relinquished by: (Signature)	and subcontractors. It assigns st client if such losses are due to circ These terms will be enforced unle	Co Cu Pb Mn Mo Ni Se	Ca Cr Co Cu Fe Pb													080-2040	2040 Chain of Custody						ANALYSIS REQUEST		20		<u> </u>		Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
) Received by: (Signature)	ors. It assigns standard terms and conditions es are due to circumstances beyond the control be enforced unless previously negotiated.	Ag II U	Mn Mo Ni K Se Ag SiO2													-	in of Custody			AP	AFE	CC		Deliverables: EDD — ADaPT —			Program: UST/PST └─PRP └─Brownfields	Work Order Comments	www.xenco.com
		Date/Time		1631 / 245.1 / /4/U / /4/1 : Hg	Sr TI Sn U V Zn											Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the				API: PA.2021.04159.EXP.01		1137531001	Work Order Notes	Other:	ŸRRP ~ævel IV		s RRC Superfund	ents	Page 1 of 2

Revised Date 051418 Rev. 2018 1

)					C	hall	그 0	Chain of Custody	VQV	Work Order No:
XIII	0		Houston	TX (281) 240-4	200 Da	ıllas,TX	(214) 9	02-0300 San A	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	
LABORAT	RES	Hobb	Midland 5.NM (575-392)	d,TX (432-704-5 -7550) Phoenix	5440) E	L Paso, 0-355-0	TX (91	5)585-3443 Lub tlanta.GA (770-4	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-620-2000)	3-620-2000) www.xenco.com Page 2 of 2
Project Manager: Joseph	Joseph Hernandez			: (if different)	ent)	Jim Raley	aley			
Company Name: WSP				Company Na	Pic.	WPX Energy	nergy			Program: UST/PST □PRP □Brownfields □RC □Superfund □
Address: 3300 No	3300 North A Street			Address		5315 E	Buena	5315 Buena Vista Dr.]
City, State ZIP: Midland,	TX 79705			City, State ZI	D	Carlsb	ad, N	Carlsbad, NM 88220		vel III
Phone 281-702-2329	-2329		Email	Anna.Byers@wsp.com	@wsp.	com,				Deliverables: EDD ADaPT Other:
Project Name: RDU 11			Tu	Turn Around					ANALYSIS REQUEST	JEST Work Order Notes
Project Number: 3140336	31403360.036, 31403360.035	60.035	Routi	Routine 😾						GC 1137631001
incident ID: nAB1728	nAB1728553778,nAB1728551205	728551205	Rush:							AFE
Sampler's Name: Gilbert Moreno	loreno		Due Date:)ate:						API: PA.2021.04159.EXP.01
SAMPLE RECEIPT	Temp Blank:	(Yes No	Wet Ice:	(Yes) No	3					
Temperature (°C):	2/1.0		Thermometer ID	₽,	ner)		
	O	1.1	Non Be		onta	5)	8021)	300.6		
	Yes No NIA	Total	Total Containers:		r of (A 80	PA 0	(EP	_	lab, if received by 4:30pm
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (Feet)	Numbe	TPH (E	BTEX (E	Chlorid		Sample Comments
вно6	S	3.3.22	9:45	0.5	7	×	×	×		
вно6	S	3.3.22	9:50	4	1	×	×	×		
BH07	S	3.3.22	9:55	0.5	_	×	×	×		
BH07	S	3.3.22	10:00	4	_	×	×	×		
BH08	S	3.3.22	10:05	0.5	7	×	×	×		
ВН08	S	3.3.22	10:10	4	_	×	×	×		
BHOS	n u	3.3.22	10.35	2 0.0	_	× >	× >	× >		
BH10	S	3.3.22	10:30	0.5	_	×	×	×		
BH10	S	3.3.22	10:35	4		×	×	×		
Total 200.7 / 6010 200.8 / 6020:	200.8 / 6020: Metal(s) to be an	ω	8RCRA 13PPM	RCRA 13PPM Texas 11 A	11 AI	S S	As Ba Be	CG Cr	Cr Co	Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontra	d relinquishment of	samples const	itutes a valid pu	rchase order from	m client	compan	y to Xer	co, its affillates a	and subcontractors. It assign	ctors. It assigns standard terms and conditions
of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms wi	0 will be applied to	each project an	d a charge of \$5	for each sample	submit	ted to X	anco, bu	t not analyzed. T	1 III —	be enforced unless previously negotiated.
Relinquished by: (Signature)	Ire)	Received	Received by: (Signature)	re)		Date/Time	Time	Rei	Relinquished by: (Signature)	ature) Received by: (Signature) Date/Time
- Colors	2	Coo			3/3/22	22	Ń	2		
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Phone 575-988-3199 Fax: 575-988-3199

Carlsbad, NM 88220

1089 N Canal St.

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Eurofins Carlsbad

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13 14

Chain of Custody Record

💸 eurofins

Environment Testing
America

Project Name: RDU 11 State, Zip: TX, 79701 BH04 (890-2040-8) BH04 (890-2040-7) BH03 (890-2040-8) BH03 (890-2040-5) BH02 (890-2040-4) BH02 (890-2040-3) BH01 (890-2040-2) BH01 (890-2040-1) Sample Identification - Client ID (Lab ID Midland vote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC altertion immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC. BH05 (890-2040-9) 432-704-5440(Tel) Possible Hazard Identification 1211 W Florida Ave Eurofins Environment Testing Shipping/Receiving Client Information (Sub Contract Lab) elinquished by Empty Kit Relinquished by elinquished by Deliverable Requested I II III IV, Other (specify) Custody Seals Intact: linquished by: Yes ∆ No Custody Seal No South Centr Project #: 88000203 Phone # OM Due Date Requested 3/9/2022 Primary Deliverable Rank Date/Time Date/Time TAT Requested (days): Sample Date 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 Date Mountain 11 07 Mountain 09 35 Mountain 09 30 Mountain 09 25 Mountain 11 10 Mountain 11 40 Mountain 11 37 Mountain 11 20 Mountain Sample 11 05 Time (C=comp, G=grab Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid essica kramer@eurofinset com Mail Kramer Jessica Field Filtered Sample (Yes or No) NELAP - Texas lime. Accreditations Required (See note) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client — Disposal By Lah — Archive For Month Cooler Temperature(s) °C and Other Remarks. Received by Received by Received by × × × 300 ORGFM 28D/DI LEACH Chloride × \times × × × × × × × × × × × × × B015MOD_NM/8015NM_S_Prep Full TPH 8021B/5035FP_Calc BTEX × × × × × × × × × × × × × × × × × × 8015MOD Calo Analysis Requested × Total_BTEX_GCV × × × × × × × × Disposal By Lab State of Origin.
New Mexico Carrier Tracking No(s) fethod of Shipment: Date/Time Archive For Æ, Total Number of containers A-HCL
B NaOH
C-Zn Acetate
D Nitric Acid
F-NaHSO4
F-NaHSO4
G Amchlor
H-Ascorbic Acid
I Ice
J-DI Water
K EDTA
L EDA COC No: 890-652 1 Page 1 of 3 Preservation Codes 890-2040-1 Special Instructions/Note: M Hexane
N None
O AsNaO2
P NaZO4S
Q NaZSO3
R NaZSO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Company Ver: 06/08/2021 Months

Lab PM:	ain of Custody Record
Carrier Tracking No(s):	
COC No	
	America

America	Environment
	: Testing

Mountain Mountain	Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Possible Hazard Identification Unconfirmed Unconfirmed Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank 2 Date/Time Date/Time Method of Shipment: Primary Deliverable Received by Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided, accreditation status should be brought to Eurofins Environment Testing South Central LLC alternation immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Cust	Note. 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Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC alaboratory or other instructions will be provided, accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central 1 mon Possible Hazard Identification. Sample Disposal (A fee may be assessed if samples are retained longer than 1 mon Possible Hazard Disposal By Lab	Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC altertion immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately.	Mountain	BH09 (890-2040-18) 3/3/22 10 25 Solid X X X X X X X	BH09 (890-2040-17) 3/3/22	BH08 (890-2040-16) 3/3/22 10 10 10 Solid X X X X X X X X X X X X X X X X X X X	BH08 (890-2040-15) 3/3/22 Mountain Solid X X X X X X X X X X X X X X X X X X X	BH07 (890-2040-14) 3/3/22 10 00 Solid X X X X X X X X X	BH07 (890-2040-13) 3/3/22 09 55 Solid X X X X X X X X X X X X X X X X X X X	Solid × × × × × ×	BH06 (890-2040-11) 3/3/22 09 45 Solid X X X X X X X X X	 Preservation Code: 🛝	Field Filtered S Perform MS/MS 300_ORGFM_28D 8015MOD_NM/80 8021B/5035FP_C 8015MOD_Calc Total_BTEX_GCV	SD (Y	EACH SPREX TEX LEDA Z	No) Chlorin PP Full I ce U D) Water V	de TPH H Ascorbic Acid T - H Ascorbic Acid T	D. Nitric Acid P	B- NaOH N	Analysis Requested	Company Accreditations Required (See note): Eurofins Environment Testing South Centr NELAP - Texas 890-2040-1	Cilent Contact: E-Mail State of Origin Fage: Shipping/Receiving Jessica kramer@eurofinset com New Mexico Page 2 of 3	Client Information (Sub Contract Lab) Sampler Lab PW: COC No Kramer Jessica Carrier Tracking No(s): Each PW: Sampler COC No 890-652 2	Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 Chain of Custody Record American Chain of Custody Record		
	Company	い <u>************************************</u>				longer than 1 month) For Months	nwarded under chain-of-custody If the ructions will be provided. Any changes to Environment Testing South Central LLC.						The state of the s				Special Instructions/Note:	er		Vater V	ic Acid	Nitric Acid NaHSO4	cetate OZ	Codes	#: J-2040-1	e: ge 2 of 3	C No 0-652 2	eurofins Environment Testing America	

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Environment Testing America

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact Shipping/Receiving Company Eurofins Environment Testing South Centr Address. 1211 W Florida Ave, City Midland State, Zip TX, 79701 Phone 432-704-5440(Tel) Email: Project Name: RDU 11 Site	Phone: Phone	ys);		Krame (Kes or No)	SD (Yes or No)	D/DI_LEACH Chloride	calc BTEX	set.com (See not		llysis R	State of Or New Me. Requested	Carrier Tracking State of Origin New Mexico uested	acking Packing Packing	Carrier Tracking No(s) State of Origin New Mexico uested			8. 10.00 - 10.0	COC No: 890-65: Page: Page: Page: Job#: 890-20: 890-20: Reserv Preserv A HCL B NaOI C Na	COC No: 890-652 3 Page: Page: 3 of 3 Job.#: 890-2040-1 890-2040-1 Reservation Codes A HCL N NACHOL C Zn Accidat C Zn Accidat C NACHOL C NACHO C NACHOL C NACHO C NACHOL		M Hexane M Hexane N None O AsNaO2 P - Na2O4S Q Na2SO3 R - Na2SO3 S H2SO4 T TSP Dodecahydrate U - Acetone U - Acetone V MCAA W pH 4-5 Z other (specify)
RDU 11 Sile Sample Identification - Client ID (Lab ID)	88000203 SSOW#:	Sample Time	Sample (V) Type (S) (C=comp, o= (G=grab) s1-n	Matrix (Warnater Sacolid, Carvasteloit, Carv	Perform MS/MSD (Yes	300_ORGFM_28D/DI_LEAG	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total_BTEX_GCV								Total Number of contain	Other L		z c	Z other (specify) Special Instructions/Note:
			200% L	dha	X	إويب	400	ε	1		4						XĮ:	1	opecial	iou	cuons/Note.
ВН 10 (890-2040-19)	3/3/22	10 30 Mountain		Solid		×	×	×	×								ے		2000		AND A MARKET AND A STATE OF THE
BH10 (890-2040-20)	3/3/22	10 35 Mountain		Solid		×	×	×	×			-	+-1	+			-				
Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-cusbody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC.	Testing South Centra ve for analysis/tests/ ral LLC attention im	al, LLC places the matrix being an mediately If all	ne ownership of malyzed the sample requested accred	ethod analy s must be s itations are	te & accr hipped b current to	editatio ack to t	n comp he Euro eturn th	ofins Er The sign	upon c nvironn ed Cha	ut subraent Te	contractions string s	t labor South C attesti	atories entral	This LLC Is aid cor	sampl aborato nplica	ships bry or o	ment i other i Eurofi	s forw nstruc ins En	arded under o tions will be p wironment Te	chain-o provided sting S	of-custody If the defending in the defendance of
Possible Hazard Identification Unconfirmed					Sam	ple D Reti	p le Disposal (A f i ☐Return To Client	al (A	fee i	nay t	e as Di	assessed if san Disposal By Lab	dif s	ampi	es a		aine Archi	tained long Archive For	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	1 mou	nth) Months
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	able Rank 2			Spec	Special Instructions/QC	structi	ons/G		Requirements	ment	"									
Empty Kit Relinquished by		Date			Time			-			١	_ ₹	thod c	Method of Shipment:	nent:						
Relinquished by $(M \mathbb{G} + 3422)$	Date/Time Date/Time		Com	Company		Received by	d by							Date/	Date/Time		13		13 15	हु हु	Company ()
	Date/Time·		Com	Company		Received by	d by	ati ire/a) °C ar	O. D.	Dem	orke		Dat	Date/Time					Cor	Company
Custody Seal No ∆ Yes ∆ No						Cooler Temperature(s) °C and Other Remarks.	emper	ature(s)°C ar	id Othe	yr Rem	arks.									

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2040-1

SDG Number: 31403360.036.31403360.035

Login Number: 2040 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2040-1

SDG Number: 31403360.036.31403360.035

Login Number: 2040
List Source: Eurofins Midland
List Number: 2
List Creation: 03/04/22 01:21 PM

Creator: Lowe, Katie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

True

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<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 95617

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	95617
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. At this time, the largest variance the OCD can grant is 500 ft2 for confirmation samples. Sidewall and floor samples should represent no more than 500 ft2. The work will need to occur in 90 days after the work plan has been approved.	5/4/2022

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 323117

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1728553778
Incident Name	NAB1728553778 ROSS DRAW UNIT #011 @ 30-015-24307
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-24307] ROSS DRAW UNIT #011

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROSS DRAW UNIT #011
Date Release Discovered	09/21/2017
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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District IV

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe NM 87505

QUESTIONS, Page 2

Action 323117

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 0, 1411 07 000	
QUESTI	ONS (continued)	
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289 Action Number: 323117 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	I I attion immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are reto report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 rep the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, sur water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.		
	Name: James Raley	

Title: EHS Professional

Email: jim.raley@dvn.com Date: 03/14/2024

I hereby agree and sign off to the above statement

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 323117

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information	n must be provided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents	s of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully	delineated Yes
Was this release entirely contained within a lined containment a	area No
Soil Contamination Sampling: (Provide the highest observable va	alue for each, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	5220
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	58.3
GRO+DRO (EPA SW-846 Method 8015M)	58.3
BTEX (EPA SW-846 Method 8021B of	or 8260B) 0
Benzene (EPA SW-846 Method 8021B	or 8260B) 0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization repo which includes the anticipated timelines for beginning and completing the re	ort includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, emediation.
On what estimated date will the remediation commence	10/01/2023
On what date will (or did) the final sampling or liner inspection of	occur 10/30/2023
On what date will (or was) the remediation complete(d)	10/30/2023
What is the estimated surface area (in square feet) that will be	reclaimed 0
What is the estimated volume (in cubic yards) that will be reclai	imed 0
What is the estimated surface area (in square feet) that will be	remediated 0
What is the estimated volume (in cubic yards) that will be remed	diated 0
These estimated dates and measurements are recognized to be the best gue	ess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be n	ninimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 323117

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	R360
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/14/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 5

Action 323117

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
	Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 323117

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	323118
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/30/2023
What was the (estimated) number of samples that were to be gathered	70
What was the sampling surface area in square feet	38500

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	38500			
What was the total volume (cubic yards) remediated	4380			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	4380			
What was the total volume (in cubic yards) reclaimed	4380			
Summarize any additional remediation activities not included by answers (above)	Remediation area has been restored with clean backfill material and re-seeded with BLM Seed Mixture #2 following the appropriate BLM re-seeding guidelines for seed to sqft area ratio.			

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 03/14/2024

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QUESTIONS, Page 7

Action 323117

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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CONDITIONS

Action 323117

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	323117
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Remediation and revegetation reports will need to be submitted and approved before this incident will receive the final status of "Restoration Complete".	3/20/2024
bhall	A reclamation and/or revegetation report will not be accepted until reclamation and/or revegetation of the release area are complete and meet the requirements of 19.15.29.13 NMAC. This release in an area not reasonably needed for production or drilling activities and will need to be reclaimed and revegetated as early as practicable.	3/20/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards; OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/20/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/20/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/20/2024