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

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	nAPP2100546416
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID 5380				
Contact Name Kyle Littrell			Contact Telephone 432-221-7331				
Contact emai	l Kyle_Lit	trell@xtoenergy.c	om		Incident # (assigned by OCD)	
Contact mail	ing address	522 W. Mermod.	, Carlsbad, NM 88	3220			
			Location	of R	elease So	urce	
Latitude 32.2	9229				Longitude _	-103.92739	
			(NAD 83 in dec	imal des	grees to 5 decim	al places)	
Site Name E	Bronco				Site Type C	DP	
Date Release		12/22/2020			API# (if appl	icable)	
	0 .1	m ti		r			1
Unit Letter	Section	Township	Range		Count		
Е	19	238	30E		Eddy	/	
Surface Owner	: X State	Federal Tr	ibal	Vame:			
	_					_	
			Nature and	l Vol	ume of R	Release	
<u></u>				calculat	ions or specific		volumes provided below)
Crude Oil		Volume Release	d (bbls)			Volume Reco	vered (bbls)
Produced	Water	Volume Release	d (bbls)			Volume Reco	vered (bbls)
			ion of total dissolv water >10,000 mg		ids (TDS)	Yes N	0
Condensa	te	Volume Release		<i>,</i>		Volume Reco	vered (bbls)
☐ Natural G	as	Volume Release	d (Mcf)			Volume Reco	vered (Mcf)
Other (des	scribe)	Volume/Weight	Released (provide	units)		Volume/Weight Recovered (provide units)	
Cause of Rele	ease Mechan	ic noticed discolo	red area toward th	e top o	of the glycol c	contactor and a	1/2" ball valve dripping glycol onto the
	grouna.	The discolored ar	ea on the vesser w	as bun	ni paini above	e me PRV, mai	cating that the gas from the reflet valve
		gnt mre and then e tion activities.	xunguisned itself	aner P	K v reseated.	A third-party c	contractor has been retained for

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2100546416
District RP	
Facility ID	
Application ID	

<u> </u>	ř	
Was this a major	If YES, for what reason(s) does the respon	asible party consider this a major release?
release as defined by	Fire occurred at the facility.	
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
□ I ES □ NO		
If YES, was immediate n	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
		amlet'; 'emily.hernandez@state.nm.us'; rmann@slo.state.nm.us on
	3, 2020 10:07 AM via email.	innet, ennry.nernandez@state.nin.us, mann@sio.state.nin.us on
Wednesday, Becomber 25	7, 2020 10.07 11111 VIA CITAII.	
	Initial Re	esponse
The responsible	party must undertake the following actions immediates	y unless they could create a safety hazard that would result in injury
The responsible	party must undertake the following actions immediately	y uniess they could create a sajety nazara that would result in injury
The source of the rela	ease has been stopped.	
★ The impacted area has	as been secured to protect human health and	the environment.
		likes, absorbent pads, or other containment devices.
l	ecoverable materials have been removed an	-
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
NA		
Day 10 15 20 9 D (4) NDA	(AC the regressible party may common a	di-tiindi-t-l
has begun places attach	a negretive of actions to date. If remadial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
within a lined containmen	a harrative of actions to date. If remedial	please attach all information needed for closure evaluation.
I hereby certify that the info	rmation 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 noti	fications and perform corrective actions for releases which may endanger
public health or the environi	ment. The acceptance of a C-141 report by the C	OCD does not relieve the operator of liability should their operations have
addition OCD acceptance o	ate and remediate contamination that pose a three of a C-141 report does not relieve the operator of	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Ta e-141 report does not reneve die operator of	responsibility for compliance with any other federal, state, or local laws
V-1- T 144		CITO L. C
Printed Name: Kyle Littr	CIL	Title: SH&E Supervisor
2111	9/1/1/	
Signature	Juliet .	Date:
email: Kyle Littrell@xto	penergy.com	Telephone: 432-221-7331
enian.		Telepnone:
OCD Only		
Received by:		Date:

	Page 3 of	46
Incident ID	nAPP2100546416	
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?	_50-100_(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ 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?	X Yes ☐ 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?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination 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 □ 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 	ls.

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.

☐ Laboratory data including chain of custody

Received by OCD: 3/19/2021 2:56:15 PM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

	Page 4 of 46	5
Incident ID	nAPP2100546416	
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.

Brinted Name:

Kyle Littrell

SH&E Supervisor

Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature:	Date:03/19/2021
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
	_
Received by:	Date:
OCD Only Received by:	Date:

Page 5 of 46

Incident ID	nAPP2100546416
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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 19.15.29.12NMAC.

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature: The stand	Date: 03/19/2021
email: Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCT On to	
OCD Only	05/04/0004
Received by: Chad Hensley	Date: 05/04/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced



WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

March 19, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request
Bronco CDP
Incident Number nAPP2100546416
Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Bronco CDP (Site) in Unit E, Section 19, Township 23 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a fire at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number nAPP2100546416.

RELEASE BACKGROUND

On December 22, 2020, a mechanic identified a burnt area above the pressure relief valve (PRV) on the glycol contactor vessel. The burnt area on the vessel indicated that gas from the PRV caught fire and then extinguished itself after the PRV reseated. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on December 23, 2020 and subsequently submitted a Release Notification and Corrective Action Form C-141 (Form C-141) on January 5, 2021. The release was assigned Incident Number nAPP2100546416.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, 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). Depth to groundwater at the Site is estimated to be between 50 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321742103552601, located approximately 0.26 miles northeast of the Site. The groundwater well was most recently measured in May 1993 has a reported depth to groundwater of 66 feet bgs and a total depth of 100 feet bgs. Ground surface elevation at the groundwater well location is 3,034 feet above mean sea level (amsl), which is approximately 17 feet higher in elevation than



District II Page 2

the Site. There are three additional groundwater wells within a 2-mile radius of the Site that indicate regional depth to groundwater is between 50 and 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash located approximately 0.23 miles northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

TPH: 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On February 1, 2021, WSP personnel visited the Site to evaluate the release based on information provided on the Form C-141 and visual observations. WSP personnel collected two soil samples (SS01 and SS02) from a depth of 0.5 feet bgs in the area beneath the vessel where the fire occurred to assess for the presence or absence of impacted soil. The soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release area and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 2.

The soil samples were placed directly into 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 (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



District II Page 3

SOIL ANALYTICAL RESULTS

Laboratory analytical results for soil samples SS01 and SS02 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 3.

CLOSURE REQUEST

Soil samples SS01 and SS02 were collected from the area beneath the vessel where the fire occurred to assess for the presence or absence of soil impacts resulting from the December 22, 2020 fire. Laboratory analytical results for the soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria.

Based on soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified, and no excavation was warranted as a result of the fire. As such, XTO respectfully requests no further action for Incident Number nAPP2100546416. If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

Kalei Jennings

Associate Consultant

Kalui Jennings

Ashley L. Ager, P.G.

ashley L. ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

Ryan Mann, New Mexico State Land Office

Attachments:

Figure 1 Site Location Map

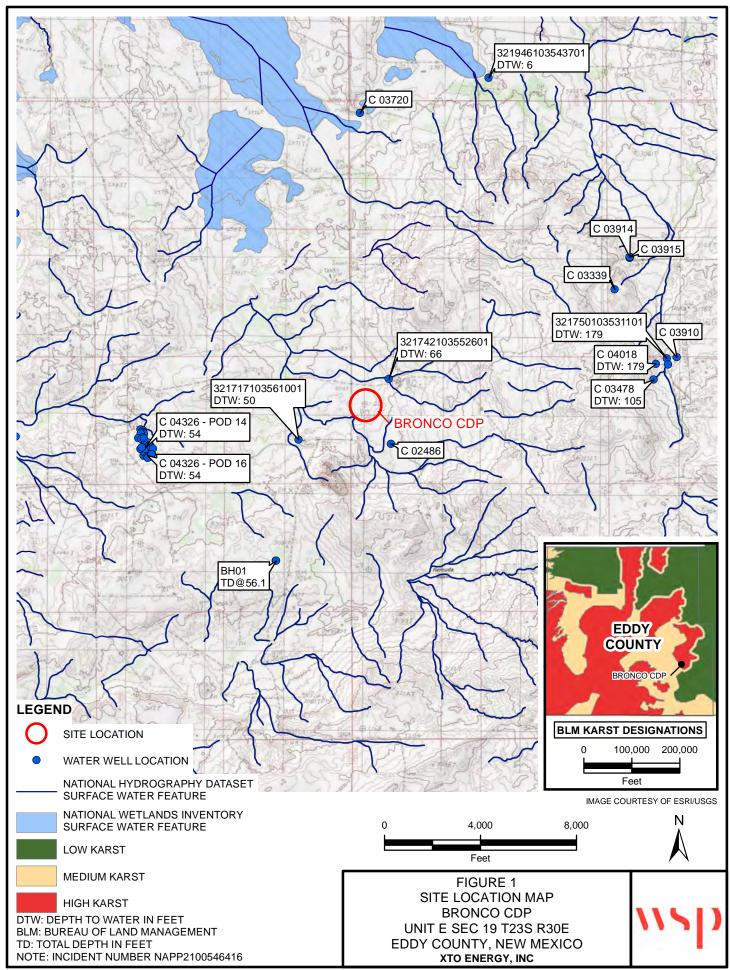
Figure 2 Soil Sample Locations

Table 1 Soil Analytical Results

Attachment 1 Referenced Well Records

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports



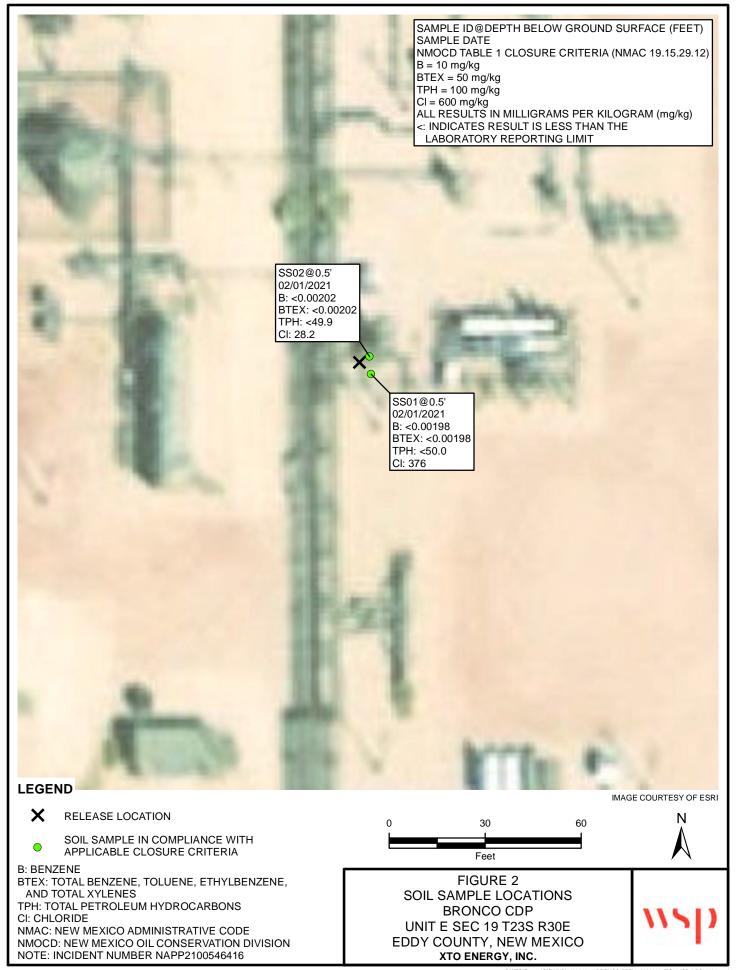


Table 1

Soil Analytical Results Bronco CDP Incident Number nAPP2100546416 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Soil Samples										
SS01	02/01/2021	0.5	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	376
SS02	02/01/2021	0.5	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	28.2

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:	
0505 Water Resources	Groundwater ~	United States	∀ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

321742103552601

Minimum number of levels = 1

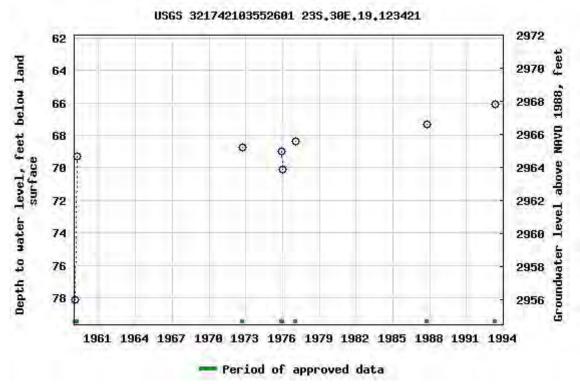
Save file of selected sites to local disk for future upload

USGS 321742103552601 23S.30E.19.123421

Available data for this site	Groundwater:	Field measurements	∨ GO	
Eddy County, New Mexico				-
Hydrologic Unit Code 1306	0011			
Latitude 32°17'42", Longit	ude 103°5!	5'26" NAD27		
Land-surface elevation 3,0	34 feet abo	ve NAVD88		
The depth of the well is 10	0 feet belov	w land surface.		
This well is completed in th	•	•	•	-
This well is completed in th	ne Rustler F	ormation (312RS	SLR) loca	al aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-03-18 14:26:59 EDT

0.68 0.62 nadww01





USGS Home **Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Groundwater United States GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321742103552601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321742103552601 23S.30E.19.123421

Eddy County, New Mexico Latitude 32°17'42", Longitude 103°55'26" NAD27 Land-surface elevation 3,034 feet above NAVD88 The depth of the well is 100 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data				
Tab-separated data				
Graph of data				
Reselect period				

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-02-06		D	62610		2954.29	NGVD29	3	Z		
1959-02-06		D	62611		2955.90	NAVD88	3	Z		
1959-02-06		D	72019	78.10			3	Z		
1959-04-07		D	62610		2963.09	NGVD29	1	Z		
1959-04-07		D	62611		2964.70	NAVD88	1	Z		
1959-04-07		D	72019	69.30			1	Z		
1972-09-20		D	62610		2963.64	NGVD29	1	Z		
1972-09-20		D	62611		2965.25	NAVD88	1	Z		
1972-09-20		D	72019	68.75			1	Z		
1975-12-09		D	62610		2963.40	NGVD29	1	Z		
1975-12-09		D	62611		2965.01	NAVD88	1	Z		
1975-12-09		D	72019	68.99			1	Z		
1976-01-15		D	62610		2962.29	NGVD29	1	Z		
1976-01-15		D	62611		2963.90	NAVD88	1	Z		
1976-01-15		D	72019	70.10			1	Z		
1977-01-19		D	62610		2963.99	NGVD29	1	Z		
1977-01-19		D	62611		2965.60	NAVD88	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1977-01-19		D	72019	68.40			1	Z		
1987-10-14		D	62610		2965.07	NGVD29	1	Z		
1987-10-14		D	62611		2966.68	NAVD88	1	Z		
1987-10-14		D	72019	67.32			1	Z		
1993-05-06		D	62610		2966.29	NGVD29	1	S		
1993-05-06		D	62611		2967.90	NAVD88	1	S		
1993-05-06		D	72019	66.10			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-03-18 14:53:00 EDT

0.35 0.31 nadww01





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:		
oodo water resources	Groundwater	~	United States	~] [(GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

321717103561001

Minimum number of levels = 1

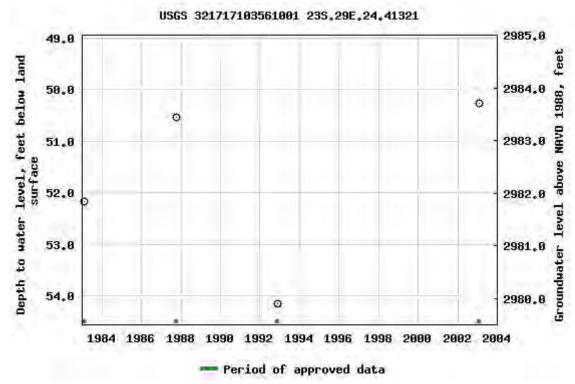
Save file of selected sites to local disk for future upload

USGS 321717103561001 23S.29E.24.41321

Available data for this site	Groundwater:	Field measurements	∨ GO	
Eddy County, New Mexico				
Hydrologic Unit Code 1306	0011			
Latitude 32°17'17", Longi	tude 103°5	5'10" NAD27		
Land-surface elevation 3,0	34 feet abo	ve NAVD88		
This well is completed in th	ne Other aq	uifers (N9999OTh	HER) nati	onal aquifer.
This well is completed in th	າe Rustler F	ormation (312RS	LR) local	aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-03-18 14:54:25 EDT

0.73 0.62 nadww01





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 321717103561001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321717103561001 23S.29E.24.41321

Eddy County, New Mexico
Latitude 32°17'17", Longitude 103°56'10" NAD27
Land-surface elevation 3,034 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Output formuts	
Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu

1983-02-02	D	62610		2980.24	NGVD29	1	Z	
1983-02-02	D	62611		2981.83	NAVD88	1	Z	
1983-02-02	D	72019	52.17			1	Z	
1987-10-14	D	62610		2981.87	NGVD29	1	Z	
1987-10-14	D	62611		2983.46	NAVD88	1	Z	
1987-10-14	D	72019	50.54			1	Z	
1992-11-16	D	62610		2978.27	NGVD29	1	S	
1992-11-16	D	62611		2979.86	NAVD88	1	S	
1992-11-16	D	72019	54.14			1	S	
2003-01-29	D	62610		2982.15	NGVD29	1	S	USGS
2003-01-29	D	62611		2983.74	NAVD88	1	S	USGS
2003-01-29	D	72019	50.26			1	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-03-18 14:54:48 EDT

0.36 0.31 nadww01





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

NA

C 04326 POD14

23S 29E 23

598191 3572765

Driller License: 1664 **Driller Company:**

CASCADE DRILLING, LP

Driller Name:

CAIN, SHAWN N.NJR.L.NER

Drill Finish Date:

05/11/2019

Plug Date:

Shallow

Log File Date:

Drill Start Date:

05/11/2019 08/28/2019

PCW Rcv Date:

Depth Well:

Source:

Pump Type: Casing Size: Pipe Discharge Size:

Estimated Yield:

Depth Water:

54 feet

Water Bearing Stratifications:

2.06

Top Bottom Description

58

58 feet

45

Shale/Mudstone/Siltstone

Casing Perforations:

Top **Bottom**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

3/18/21 12:56 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

C 04326 POD16 NA

23S 29E 23

598209 3572664

Driller License:

1664

Driller Company:

CASCADE DRILLING, LP

Driller Name:

CAIN, SHAWN N.NJR.L.NER

Drill Finish Date:

05/14/2019 Plug Date:

Drill Start Date: Log File Date:

05/14/2019 08/28/2019

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

2.07 Depth Well: 64 feet

Depth Water:

54 feet

Water Bearing Stratifications:

Top Bottom Description

52

60 Limestone/Dolomite/Chalk

Casing Perforations:

Top **Bottom** 64

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

3/18/21 12:56 PM

POINT OF DIVERSION SUMMARY



	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Bronco CDP	[Project No.]
	Eddy County, New Mexico	TE012921014

Photo No. Date
1 February 1, 2021
View of release on pad facing South.



Photo No. Date
2 February 1, 2021
View of location of soil sample.





Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-111-1 Client Project/Site: Bronco

Revision: 1

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Dan Moir

SKRAMER

Authorized for release by: 3/3/2021 10:09:56 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 5/4/2021 7:59:04 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

Ė

6

6

9

10

12

13

Client: WSP USA Inc.

Laboratory Job ID: 890-111-1

Project/Site: Bronco

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Chacklists	18

2

3

4

6

R

10

40

13

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-111-1 Project/Site: Bronco

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

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 Contains Free Liquid **CFL** CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

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)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML 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**

Relative Error Ratio (Radiochemistry) **RER**

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Released to Imaging: 5/4/2021 7:59:04 AM

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Bronco

Job ID: 890-111-1

Job ID: 890-111-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-111-1

Receipt

The samples were received on 2/1/2021 1:07 PM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

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 for preparation batch 890-99 and analytical batch 890-107 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.

Subcontract Lab non-Sister Lab

See attached subcontract report.

6

4

7

Ŏ

4.6

11

12

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-111-1

Project/Site: Bronco

Client Sample ID: SS01 Lab Sample ID: 890-111-1

Date Collected: 02/01/21 10:05

Date Received: 02/01/21 13:07

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
Xylenes, Total	<0.00198	U	0.00198	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
m,p-Xylenes	< 0.00396	U	0.00396	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/01/21 16:19	02/03/21 04:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	98		70 - 130			02/01/21 16:19	02/03/21 04:28	1
4-Bromofluorobenzene (Surr)	103		70 - 130			02/01/21 16:19	02/03/21 04:28	1

Method: 300.0 - Anions, Ion C	hromatogra	phy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	376		50.4	mg/Kg			02/02/21 12:38	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0		50.0		mg/kg		02/06/21 09:00	02/06/21 18:05	1
Gasoline Range Hydrocarbons (GRO)	<50.0		50.0		mg/kg		02/06/21 09:00	02/06/21 18:05	1
Motor Oil Range Hydrocarbons (MRO)	<50.0		50.0		mg/kg		02/06/21 09:00	02/06/21 18:05	1
Total TPH	<50.0		50.0		mg/kg		02/06/21 09:00	02/06/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 135				02/06/21 09:00	02/06/21 18:05	1
o-Terphenyl	94		70 - 135				02/06/21 09:00	02/06/21 18:05	1

Client Sample ID: SS02

Date Collected: 02/01/21 10:15

Lab Sample ID: 890-111-2

Matrix: Solid

Date Received: 02/01/21 13:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
Xylenes, Total	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
m,p-Xylenes	< 0.00403	U	0.00403	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/01/21 16:19	02/03/21 04:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	101		70 - 130			02/01/21 16:19	02/03/21 04:51	1
4-Bromofluorobenzene (Surr)	111		70 - 130			02/01/21 16:10	02/03/21 04:51	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		10.1	mg/Kg			02/02/21 12:44	1
 Method: SW8015_MOI) - General Subcon	tract Method	l					

 Analyte
 Result Diesel Range Organics (DRO)
 Qualifier
 RL 49.9
 MDL mit mg/kg
 D mg/kg
 D mg/kg
 Prepared Diesel Analyzed Dil Fac Dil

Eurofins Xenco, Carlsbad

2

3

5

7

9

11

13

14

/2/2021 (Pay 1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-111-1

Project/Site: Bronco

o-Terphenyl

Client Sample ID: SS02 Lab Sample ID: 890-111-2

Date Collected: 02/01/21 10:15 **Matrix: Solid** Date Received: 02/01/21 13:07

Method: SW8015_MOD - Gene	ral Subcon	tract Meth	od (Continue	ed)				
Analyte	Result	Qualifier	RL	MDL Uni	it D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<49.9		49.9	mg.	/kg	02/06/21 09:00	02/06/21 18:26	1
Motor Oil Range Hydrocarbons (MRO)	<49.9		49.9	mg.	/kg	02/06/21 09:00	02/06/21 18:26	1
Total TPH	<49.9		49.9	mg	/kg	02/06/21 09:00	02/06/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135			02/06/21 09:00	02/06/21 18:26	1

70 - 135

106

02/06/21 09:00 02/06/21 18:26

3/3/2021 (Rev. 1)

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-111-1

Project/Site: Bronco

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percen	t Surrogate Recovery (Acceptance Limits)
		DFBZ1	BFB1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-107-A-3-B MS	Matrix Spike	96	95	
890-107-A-3-C MSD	Matrix Spike Duplicate	97	94	
890-111-1	SS01	98	103	
890-111-2	SS02	101	111	
LCS 890-89/2-A	Lab Control Sample	93	98	
LCSD 890-89/3-A	Lab Control Sample Dup	96	94	
MB 890-89/1-A	Method Blank	99	99	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

Method: SW8015_MOD - General Subcontract Method

Matrix: Solid Prep Type: Total/NA

_			Percei	nt Surrogate Recovery (Acceptance Limits)
		1CO	ОТРН	
Lab Sample ID	Client Sample ID	(70-135)	(70-135)	
890-111-1	SS01	82	94	
890-111-2	SS02	100	106	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

2

3

7

0

10

12

13

Client: WSP USA Inc. Job ID: 890-111-1

Project/Site: Bronco

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 890-89/1-A **Matrix: Solid**

Analysis Batch: 113

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 89

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/21 16:19	02/02/21 19:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/21 16:19	02/02/21 19:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/21 16:19	02/02/21 19:48	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		02/01/21 16:19	02/02/21 19:48	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg		02/01/21 16:19	02/02/21 19:48	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/01/21 16:19	02/02/21 19:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/21 16:19	02/02/21 19:48	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	99	70 - 13	02/01/21 16:19	02/02/21 19:48	1
4-Bromofluorobenzene (Surr)	99	70 - 13	0 02/01/21 16:19	02/02/21 19:48	1

Lab Sample ID: LCS 890-89/2-A

Matrix: Solid

Analysis Batch: 113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09618		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09901		mg/Kg		99	71 - 129	
Toluene	0.100	0.09831		mg/Kg		98	70 - 130	
m,p-Xylenes	0.200	0.2015		mg/Kg		101	70 - 135	
o-Xylene	0.100	0.1002		mg/Kg		100	71 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene	93		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 890-89/3-A

Matrix: Solid

Analysis Batch: 113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89

	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09257	mg/Kg		93	70 - 130	4	35
Ethylbenzene	0.100	0.09159	mg/Kg		92	71 - 129	8	35
Toluene	0.100	0.09376	mg/Kg		94	70 - 130	5	35
m,p-Xylenes	0.200	0.1857	mg/Kg		93	70 - 135	8	35
o-Xylene	0.100	0.09487	mg/Kg		95	71 - 133	5	35

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
1,4-Difluorobenzene	96	70 - 130
4-Bromofluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-107-A-3-B MS

Lab Sample ID. 030-101-7	4-3-D IVIS						O.	ient Ja	יו יסו פולוווי	matrix opik	C
Matrix: Solid									Prep Ty	pe: Total/N	Α
Analysis Batch: 113									Pre	p Batch: 8	9
-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.100	0.1116		mg/Kg		111	70 - 130		

Eurofins Xenco, Carlsbad

Client Sample ID: Matrix Snike

Page 8 of 18

Client: WSP USA Inc. Job ID: 890-111-1

Project/Site: Bronco

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Client Sample ID: Matrix Spike Lab Sample ID: 890-107-A-3-B MS **Prep Type: Total/NA Matrix: Solid** Prep Batch: 89 **Analysis Batch: 113**

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U 0.100 0.09961 100 71 - 129 mg/Kg Toluene <0.00199 U 0.100 0.1061 mg/Kg 106 70 - 130<0.00398 U 0.200 0.2002 70 - 135 m,p-Xylenes mg/Kg 100 o-Xylene <0.00199 U 0.100 0.1010 mg/Kg 101 71 - 133

MS MS %Recovery Surrogate Qualifier Limits 1.4-Difluorobenzene 70 - 130 96 4-Bromofluorobenzene (Surr) 95 70 - 130

Lab Sample ID: 890-107-A-3-C MSD

Matrix: Solid Analysis Ratch: 113

Analysis Batch: 113									Pre	p Bato	:h: 89
	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	0.1117		mg/Kg		112	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.0994	0.09919		mg/Kg		100	71 - 129	0	35
Toluene	<0.00199	U	0.0994	0.1062		mg/Kg		107	70 - 130	0	35
m,p-Xylenes	<0.00398	U	0.199	0.1974		mg/Kg		99	70 - 135	1	35
o-Xylene	<0.00199	U	0.0994	0.1013		mg/Kg		102	71 - 133	0	35

MSD MSD Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene 70 - 130 97 4-Bromofluorobenzene (Surr) 94 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 890-99/11-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 107

MB MB Result Qualifier RL **Analyte** Unit Analyzed Dil Fac D Prepared 02/02/21 10:11 Chloride <9.96 U 9.96 mg/Kg

Lab Sample ID: LCS 890-99/12-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 107

Spike LCS LCS %Rec. Added **Analyte** Result Qualifier Unit %Rec Limits

Chloride 202 202.4 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 890-99/13-A **Matrix: Solid**

Analysis Batch: 107

LCSD LCSD RPD Spike %Rec. RPD Analyte Added Result Qualifier %Rec Limits Limit Unit Chloride 199 194.1 mg/Kg 98 90 - 110

Eurofins Xenco, Carlsbad

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-111-1

Prep Batch: 3150326_P

Project/Site: Bronco

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-110-A-3-I MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid Analysis Batch: 107

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 90 - 110 Chloride 2580 101 2811 4 mg/Kg 230

Lab Sample ID: 890-110-A-3-J MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 107

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 2580 101 2752 4 mg/Kg 171 90 - 110 2 20

Method: SW8015 MOD - General Subcontract Method

Lab Sample ID: 7721014-1-BLK Client Sample ID: Method Blank **Matrix: SOIL** Prep Type: Total/NA

Analysis Batch: 3150326

DIANK DIANK

	DLANK BLANK						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	U	50	mg/kg		02/06/21 09:00	02/06/21 12:07	1
Gasoline Range Hydrocarbons (GRO)	U	50	mg/kg		02/06/21 09:00	02/06/21 12:07	1
Motor Oil Range Hydrocarbons (MRO)	U	50	mg/kg		02/06/21 09:00	02/06/21 12:07	1

Lab Sample ID: 7721014-1-BKS **Client Sample ID: Lab Control Sample Matrix: SOIL** Prep Type: Total/NA Analysis Batch: 3150326 Prep Batch: 3150326 P

LCS LCS %Rec. Spike Added Limits Analyte Result Qualifier Unit %Rec D Diesel Range Organics (DRO) 1000 1020 mg/kg 102 70 - 135Gasoline Range Hydrocarbons 1000 1090 109 70 _ 135 mg/kg

(GRO)

Lab Sample ID: 7721014-1-BSD Client Sample ID: Lab Control Sample Dup **Matrix: SOIL** Prep Type: Total/NA

Analysis Batch: 3150326

Prep Batch: 3150326 P Spike LCSD LCSD %Rec. **RPD**

Analyte Added Result Qualifier Unit Limits RPD Limit D %Rec Diesel Range Organics (DRO) 1000 950 mg/kg 95 70 - 135 20 1000 1020 20 Gasoline Range Hydrocarbons mg/kg 102 70 - 135

(GRO)

Eurofins Xenco, Carlsbad

Released to Imaging: 5/4/2021 7:59:04 AM

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-111-1

Project/Site: Bronco

GC VOA

Prep Batch: 89

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-111-1	SS01	Total/NA	Solid	5030C	
890-111-2	SS02	Total/NA	Solid	5030C	
MB 890-89/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 890-89/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 890-89/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
890-107-A-3-B MS	Matrix Spike	Total/NA	Solid	5030C	
890-107-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

Analysis Batch: 113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-111-1	SS01	Total/NA	Solid	8021B	89
890-111-2	SS02	Total/NA	Solid	8021B	89
MB 890-89/1-A	Method Blank	Total/NA	Solid	8021B	89
LCS 890-89/2-A	Lab Control Sample	Total/NA	Solid	8021B	89
LCSD 890-89/3-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89
890-107-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	89
890-107-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	89

HPLC/IC

Leach Batch: 99

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-111-1	SS01	Soluble	Solid	DI Leach	
890-111-2	SS02	Soluble	Solid	DI Leach	
MB 890-99/11-A	Method Blank	Soluble	Solid	DI Leach	
LCS 890-99/12-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 890-99/13-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-110-A-3-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-110-A-3-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-111-1	SS01	Soluble	Solid	300.0	99
890-111-2	SS02	Soluble	Solid	300.0	99
MB 890-99/11-A	Method Blank	Soluble	Solid	300.0	99
LCS 890-99/12-A	Lab Control Sample	Soluble	Solid	300.0	99
LCSD 890-99/13-A	Lab Control Sample Dup	Soluble	Solid	300.0	99
890-110-A-3-I MS	Matrix Spike	Soluble	Solid	300.0	99
890-110-A-3-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99

Subcontract

Analysis Batch: 3150326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-111-1	SS01	Total/NA	Solid	SW8015_MOD	3150326_P
890-111-2	SS02	Total/NA	Solid	SW8015_MOD	3150326_P
7721014-1-BLK	Method Blank	Total/NA	SOIL	SW8015_MOD	3150326_P
7721014-1-BKS	Lab Control Sample	Total/NA	SOIL	SW8015_MOD	3150326_P
7721014-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW8015_MOD	3150326_P

Eurofins Xenco, Carlsbad

3

4

6

8

9

11

12

10

QC Association Summary

Client: WSP USA Inc.

Project/Site: Bronco

Job ID: 890-111-1

Subcontract

Prep Batch: 3150326_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-111-1	SS01	Total/NA	Solid	SW8015P	
890-111-2	SS02	Total/NA	Solid	SW8015P	
7721014-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7721014-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7721014-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

3

4

6

Ω

9

10

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-111-1

Project/Site: Bronco

Client Sample ID: SS01 Lab Sample ID: 890-111-1 Date Collected: 02/01/21 10:05

Matrix: Solid

Date Received: 02/01/21 13:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			89	02/01/21 16:19	MC	XC
Total/NA	Analysis	8021B		1	113	02/03/21 04:28	MC	XC
Soluble	Leach	DI Leach			99	02/01/21 17:00	MC	XC
Soluble	Analysis	300.0		5	107	02/02/21 12:38	MC	XC
Total/NA	Prep	SW8015P		1	3150326_P	02/06/21 09:00		XM
Total/NA	Analysis	SW8015_MOD		1	3150326	02/06/21 18:05	ARM	XM

Client Sample ID: SS02 Lab Sample ID: 890-111-2 Date Collected: 02/01/21 10:15

Matrix: Solid

Date Received: 02/01/21 13:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			89	02/01/21 16:19	MC	XC
Total/NA	Analysis	8021B		1	113	02/03/21 04:51	MC	XC
Soluble	Leach	DI Leach			99	02/01/21 17:00	MC	XC
Soluble	Analysis	300.0		1	107	02/02/21 12:44	MC	XC
Total/NA	Prep	SW8015P		1	3150326_P	02/06/21 09:00		XM
Total/NA	Analysis	SW8015_MOD		1	3150326	02/06/21 18:26	ARM	XM

Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

XM = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-111-1

Project/Site: Bronco

Laboratory: Eurofins Xenco, Carlsbad

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Louisiana	NE	ELAP	05092	06-30-21
,	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
The following analyte: the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
,	•	ort, but the laboratory is r Matrix	not certified by the governing authority. Analyte	This list may include analytes for which

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Texas	NELAP	T104704400-20-21	06-30-21	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.

Job ID: 890-111-1

Project/Site: Bronco

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XC
300.0	Anions, Ion Chromatography	MCAWW	XC
Subcontract	General Subcontract Method	None	XM
5030C	Purge and Trap	SW846	XC
DI Leach	Deionized Water Leaching Procedure	ASTM	XC

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

XM = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

1

3

4

7

8

9

11

4.0

Sample Summary

Client: WSP USA Inc. Project/Site: Bronco

Job ID: 890-111-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-111-1	SS01	Solid	02/01/21 10:05	02/01/21 13:07	
890-111-2	SS02	Solid	02/01/21 10:15	02/01/21 13:07	

3

4

6

Ω

9

44

12

2

3

4 5

7

9

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-111-1

SDG Number:

Login Number: 111 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	True	

1

<6mm (1/4").

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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 21424

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	21424	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
chensley	None