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	NAPP2035254726
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 email Kyle_Littrell@xtoenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.37987 Longitude -103.88675
(NAD 83 in decimal degrees to 5 decimal places)

Site Name James Ranch Unit DI 1A	Site Type Tank Battery
Date Release Discovered 12/3/2020	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
F	21	22S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls) 0.006	Volume Recovered (bbls) 0
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: LO reported a small amount of condensate (approx. 0.25 gallons) came out of the top of LP flare while working at the JRU DI1A battery. The fluid quickly extinguished itself with no vegetation impacted. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035254726
District RP	
Facility ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A fire occurred at the facility.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Amy Ruth to Mike Bratcher; Rob Hamlet; Victoria Venegas; 'Griswold, Jim, EMNRD'; blm_nm_cfo_spill@blm.gov on Friday, December 4, 2020 2:20 PM via email.

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 secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
NA

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 narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Kyle Littrell
Title: SH&E Supervisor
Signature:
Date: 12-17-20
email: Kyle_Littrell@xtoenergy.com
Telephone: 432-221-7331

OCD Only

Received by:
Date:

Incident ID	NAPP2035254726
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?	☒ 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 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
☒ 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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035254726
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: Kyle Littrell Title: SH&E Supervisor

Signature: Date:

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035254726
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 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items 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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: _____ Date: _____

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Chad Hensley Date: 06/11/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Chad Hensley Date: 06/11/2021

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 31, 2021

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

RE: Closure Request
James Ranch Unit DI 1A
Incident Number NAPP2035254726
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 James Ranch Unit DI 1A (Site) in Unit F, Section 21, Township 22 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 small condensate fire at the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2035254726.

RELEASE BACKGROUND

On December 3, 2020, a small amount of condensate released from the top of the low-pressure flare and quickly extinguished itself. Approximately of 0.006 barrels (bbls) of condensate were released onto the well pad. XTO reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) and subsequently submitted a Release Notification Form C-141 on December 17, 2020. The release was assigned Incident Number NAPP2035254726.

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 322252103541401, located approximately 1.04 miles northwest of the Site. The groundwater well was most recently measured in February 1959 has a reported depth to groundwater of 73 feet bgs and a total depth of 129 feet bgs. Ground surface elevation at the groundwater well location is 3,070 feet above mean sea level (amsl), which is approximately 97 feet lower in

elevation than the Site. The next closest permitted groundwater well with depth to groundwater data is NMOSE well C-03015, located approximately 2.66 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 262 feet bgs and a total depth of 1,316 feet bgs. Ground surface elevation at the groundwater well location is 3,285 feet amsl, which is approximately 118 feet higher in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 600 feet south 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, church, or wetland. 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 located in a 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
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On January 15, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent from a depth of 0.3 feet bgs to assess for the presence or absence of impacted soil. The preliminary 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 extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

On March 3, 2021, WSP personnel returned to the Site to complete additional soil assessment activities. Boreholes BH01 and BH02 were advanced via hand auger to a depth of 4 feet bgs within the release extent. Delineation soil samples were collected from each borehole from depths of 2 feet bgs and 4 feet bgs. Soil from the boreholes was field screened for volatile aromatic

hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The borehole soil sample locations are depicted on Figure 3. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

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 Xenco Laboratories (Xenco) 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.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 and SS02 and delineation soil samples from boreholes BH01 and BH02 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the December 3, 2020 condensate fire. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. As such, XTO respectfully requests no further action for Incident Number NAPP2035254726.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

Spencer Lo
Staff Geologist

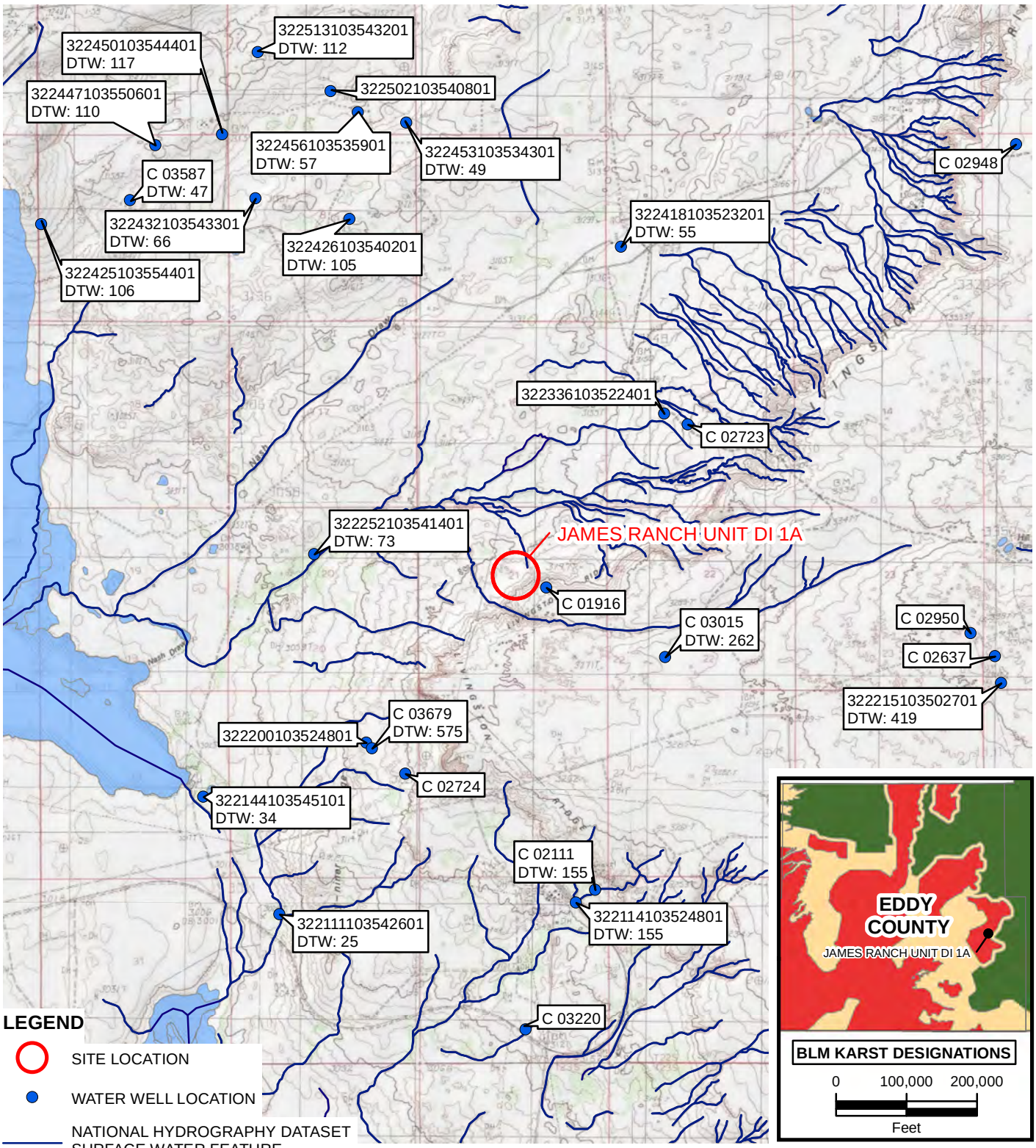
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic/Sampling Log
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES



LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT
TD: TOTAL DEPTH IN FEET
NOTE: INCIDENT NUMBER NOT ASSIGNED

FIGURE 1
SITE LOCATION MAP
JAMES RANCH UNIT DI 1A
UNIT F SEC 21 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC

P:\XTO Energy\GIS\MXD\012921002_JAMES RANCH UNIT DI 1A\012921002_FIG01_SL_RECEPTOR_2021.mxd

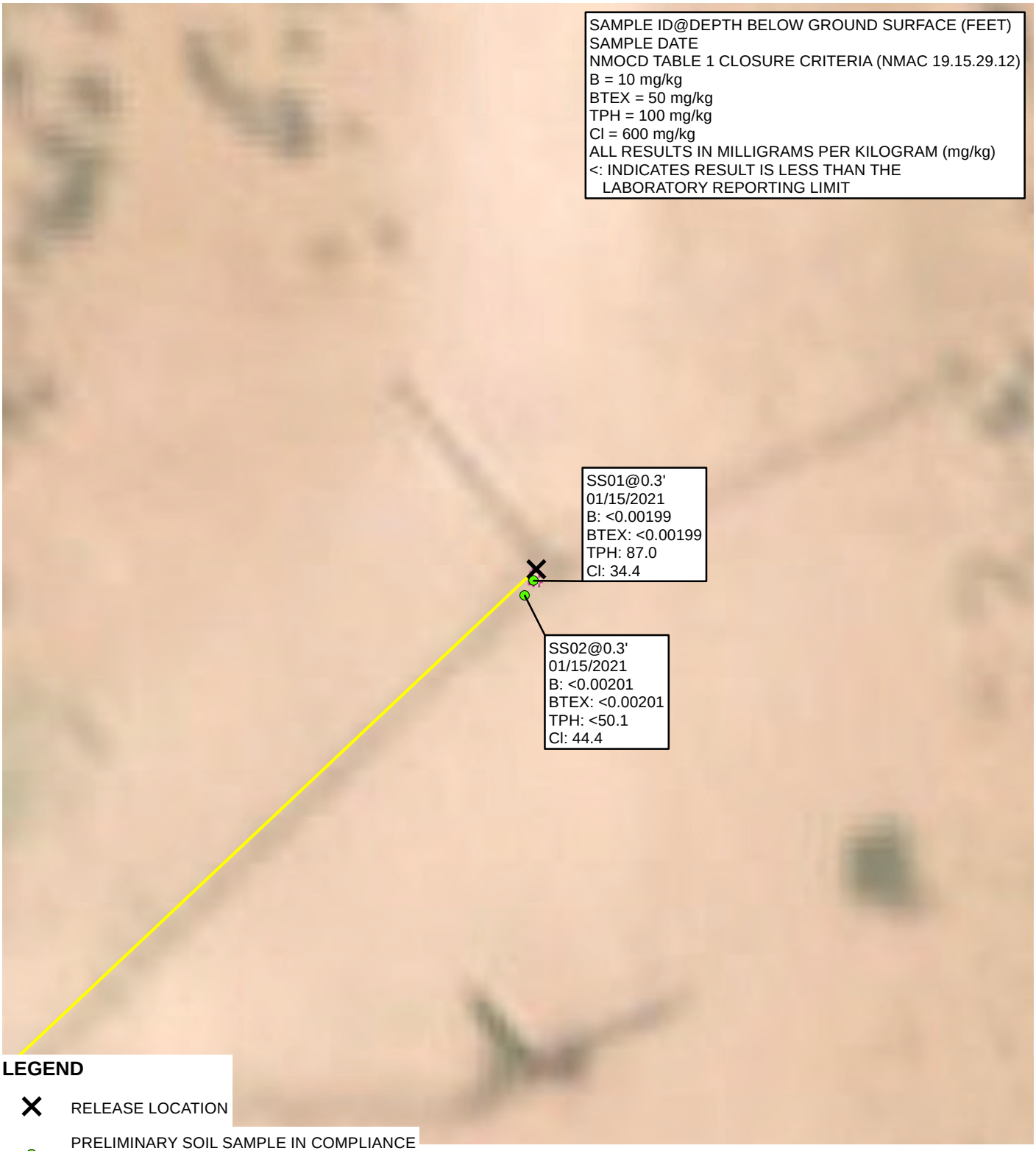
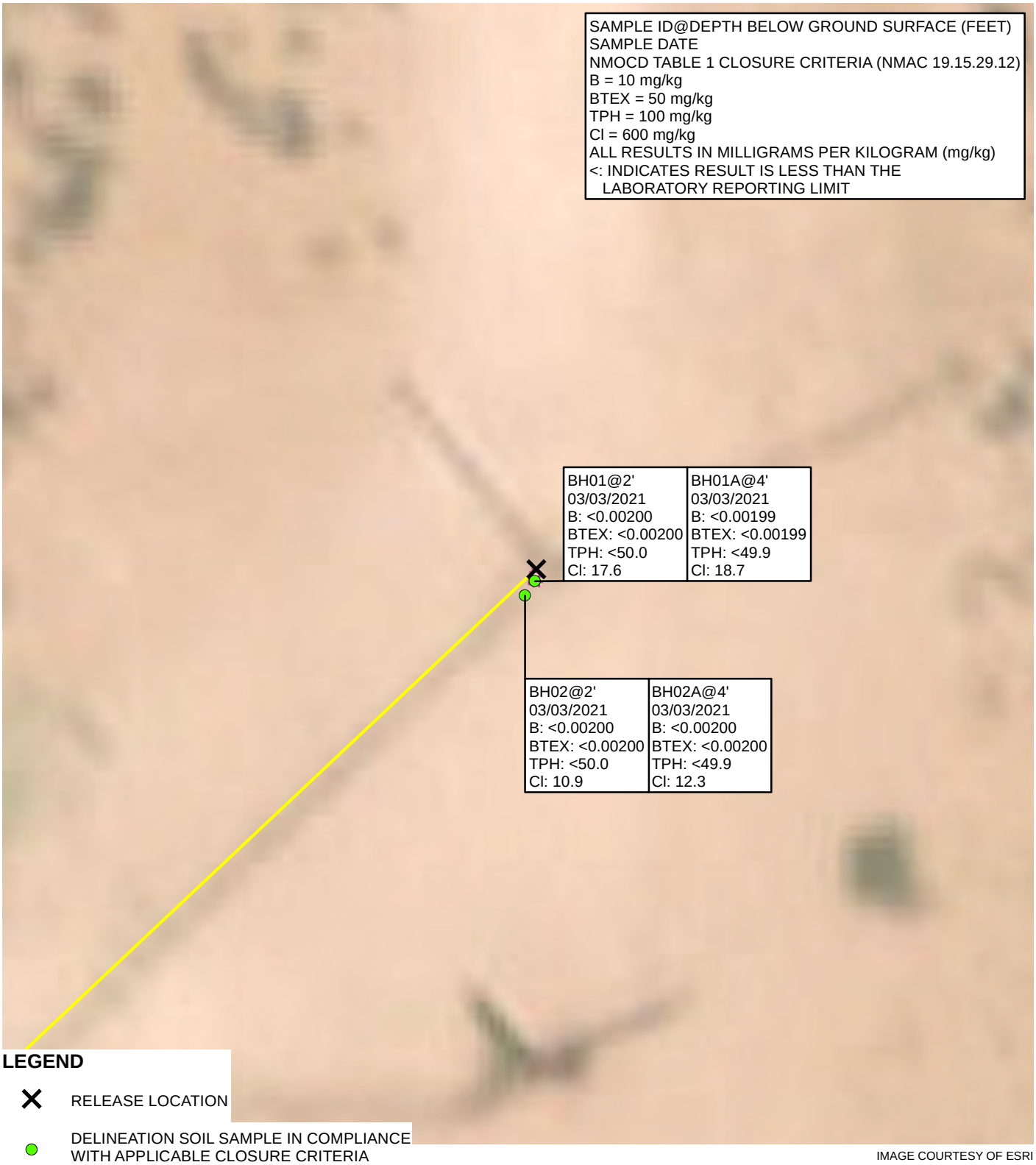


FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
JAMES RANCH UNIT DI 1A
UNIT F SEC 21 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012921002_JAMES RANCH UNIT DI 1A\012921002_FIG02_PRELIMINARY_2021.mxd



B: BENZENE
BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
TPH: TOTAL PETROLEUM HYDROCARBONS
Cl: CHLORIDE
NMAC: NEW MEXICO ADMINISTRATIVE CODE
NMOCD: NEW MEXICO OIL CONSERVATION DIVISION
NOTE: INCIDENT NUMBER NOT ASSIGNED

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
JAMES RANCH UNIT DI 1A
UNIT F SEC 21 T22S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012921002_JAMES RANCH UNIT DI 1A\012921002_FIG03_DELINEATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
James Ranch Unit DI 1A
Incident Number NAPP2035254726
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
Surface Samples										
SS01	01/15/2021	0.3	<0.00199	<0.00199	<50.3	87.0	<50.3	87.0	87.0	34.4
SS02	01/15/2021	0.3	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	44.4
Delineation Samples										
BH01	03/03/2021	2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	17.6
BH01A	03/03/2021	4	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	18.7
BH02	03/03/2021	2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	10.9
BH02A	03/03/2021	4	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	12.3

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

ATTACHMENT 1: REFERENCED WELL RECORD

USGS 322252103541401 22S.30E.20.12310

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°22'52", Longitude 103°54'14" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 129 feet
Land surface altitude: 3,065 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

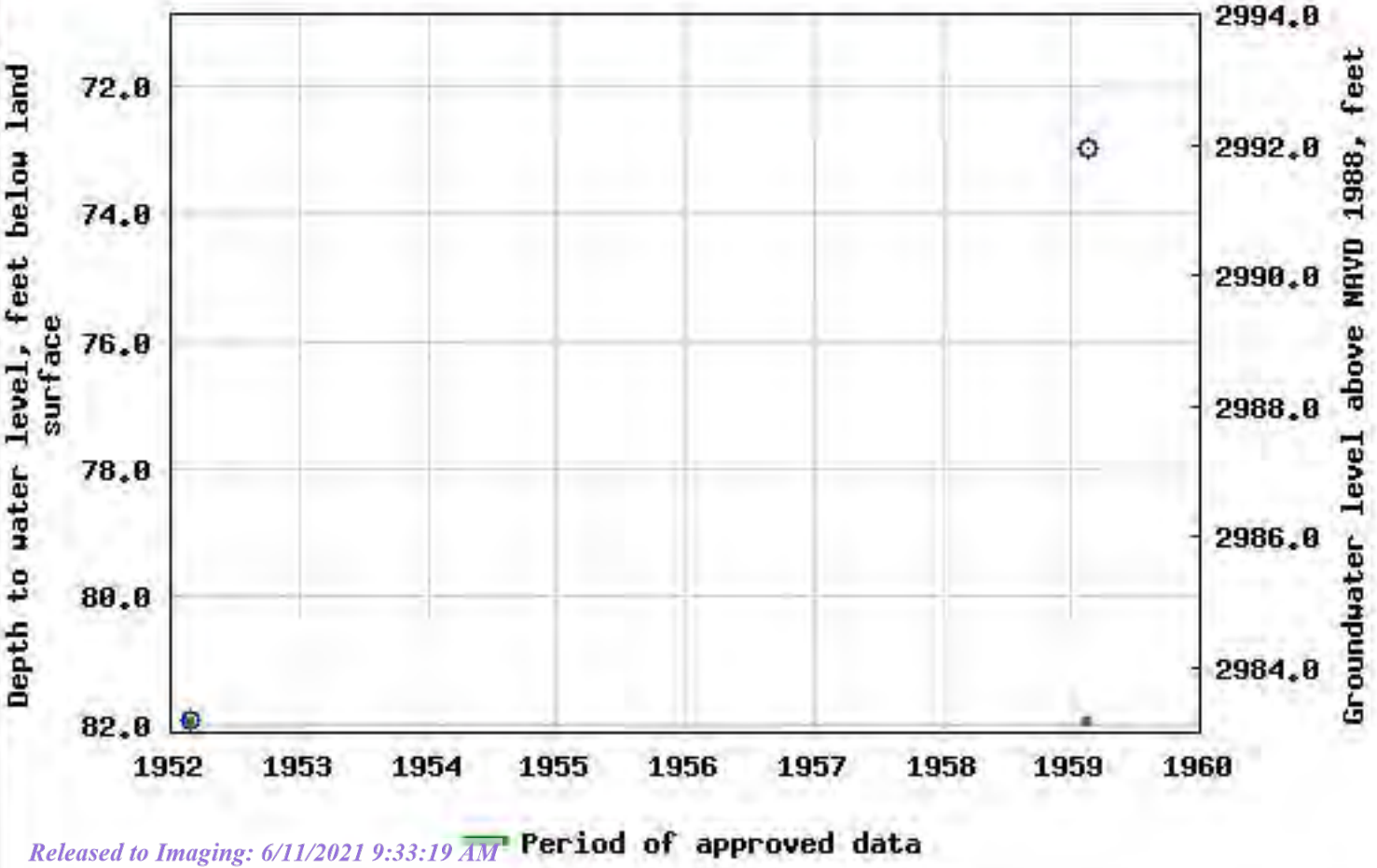
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1952-02-26	1959-02-19	6
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322252103541401 22S.30E.20.12310



USGS 322111103542601 22S.30E.32.11144

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°21'11", Longitude 103°54'26" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 107 feet
Land surface altitude: 3,022 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

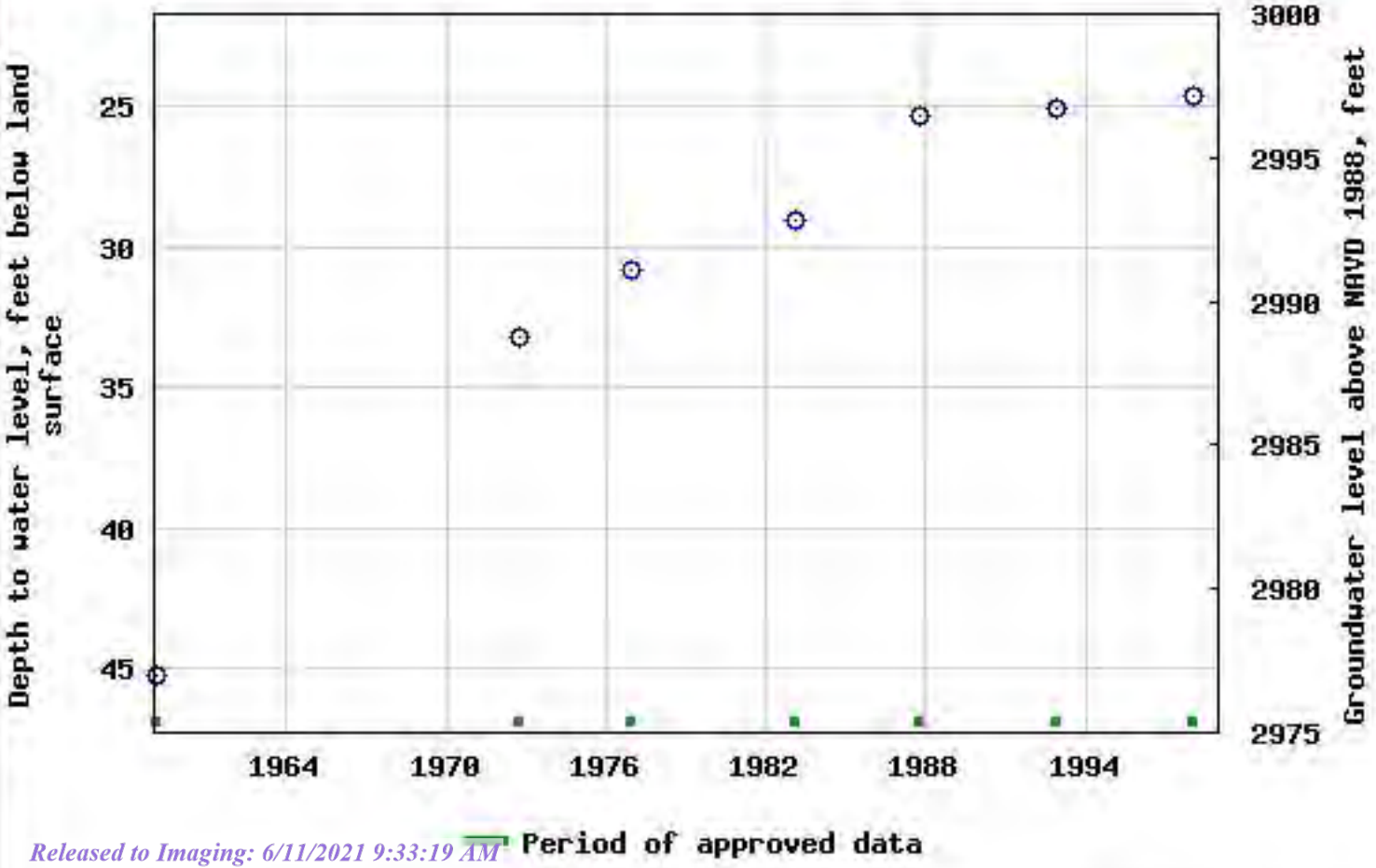
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-19	1998-02-02	21
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322111103542601 22S.30E.32.11144



USGS 322114103524801 22S.30E.33.212243

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°21'14", Longitude 103°52'48" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 248 feet
Land surface altitude: 3,163 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

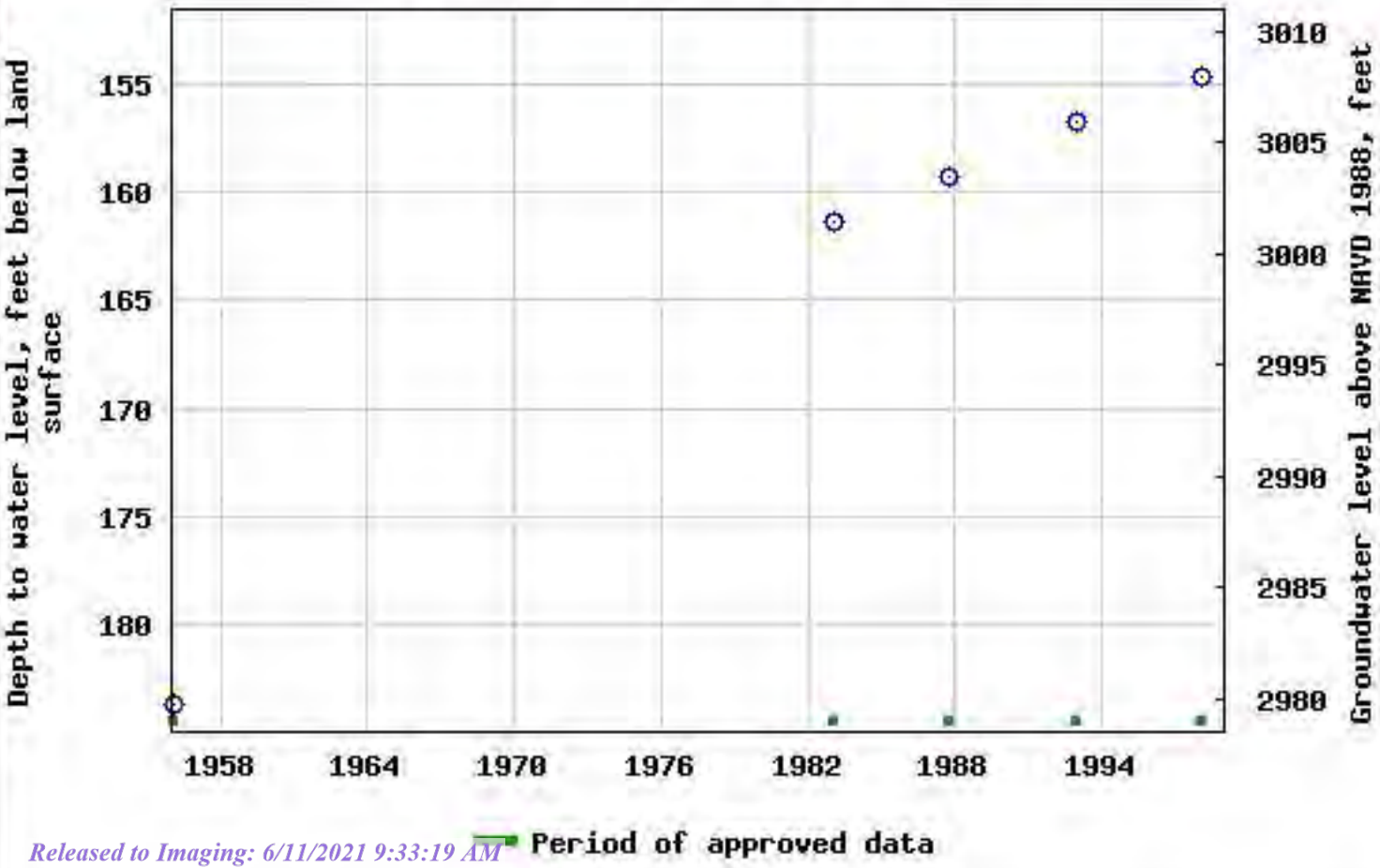
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1956-02-25	1998-02-02	15
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322114103524801 22S.30E.33.212243



USGS 322144103545101 22S.30E.30.234431

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°21'44", Longitude 103°54'51" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 75 feet
Land surface altitude: 3,021 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

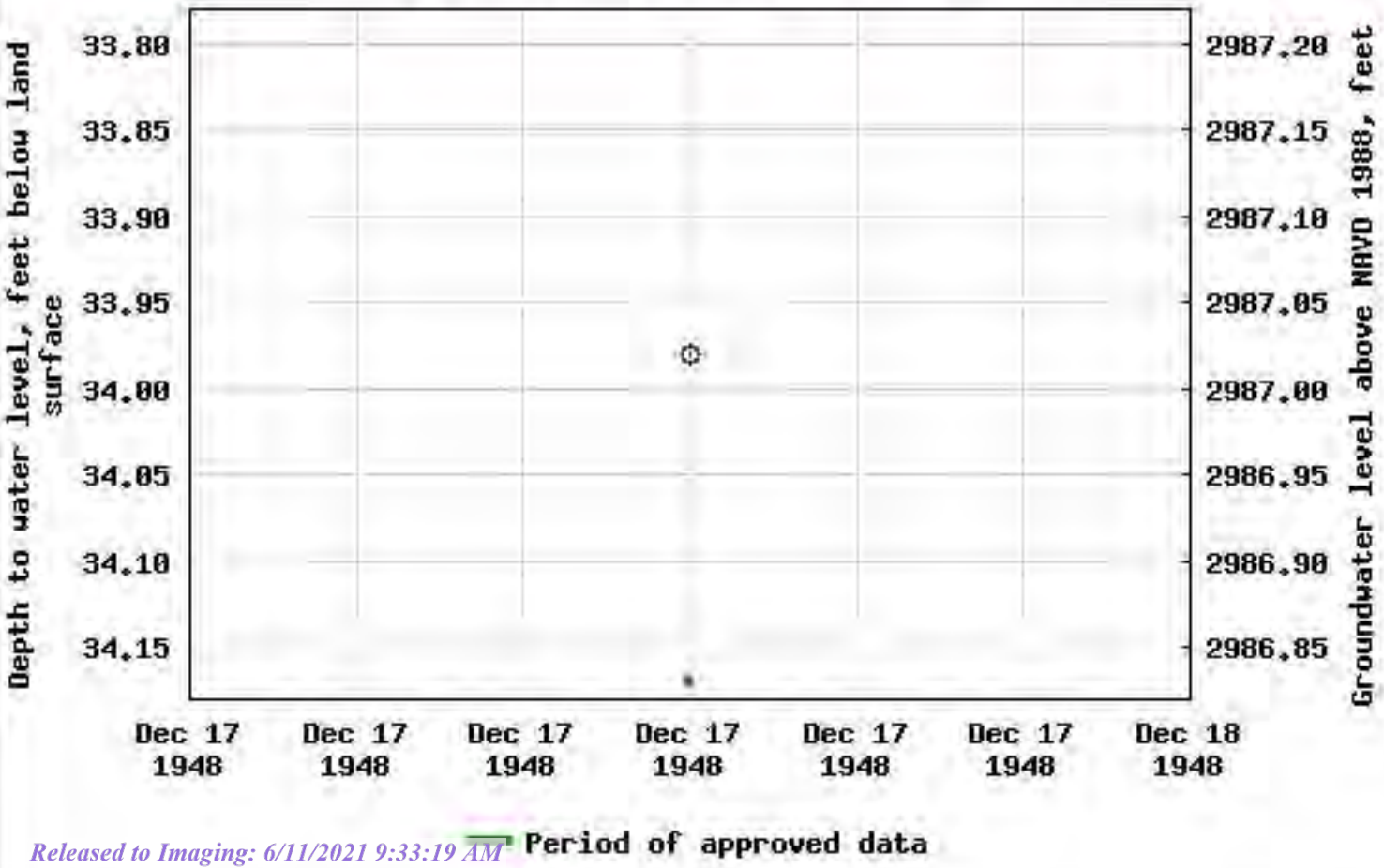
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1948-12-17	1948-12-17	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322144103545101 22S.30E.30.234431



USGS 322215103502701 22S.30E.24.3334 P-14

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°22'15", Longitude 103°50'27" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,360 feet above NGVD29.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.

AVAILABLE DATA:

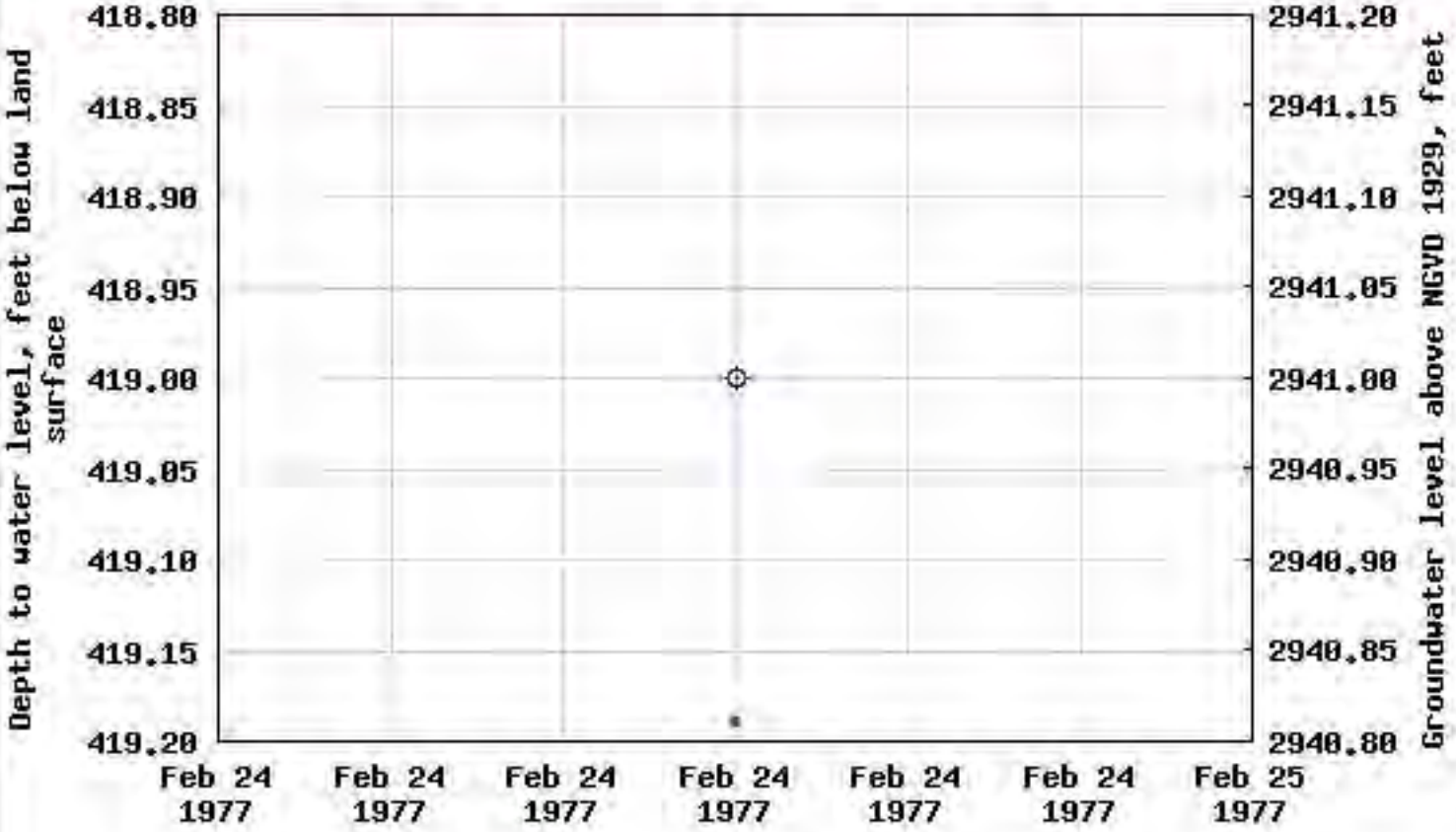
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1977-02-24	1977-02-24	3
Field/Lab water-quality samples	1977-02-24	1977-03-14	2
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322215103502701 22S.30E.24.3334 P-14



USGS 322418103523201 22S.30E.10.31131

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'18", Longitude 103°52'32" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 77 feet
Land surface altitude: 3,133 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

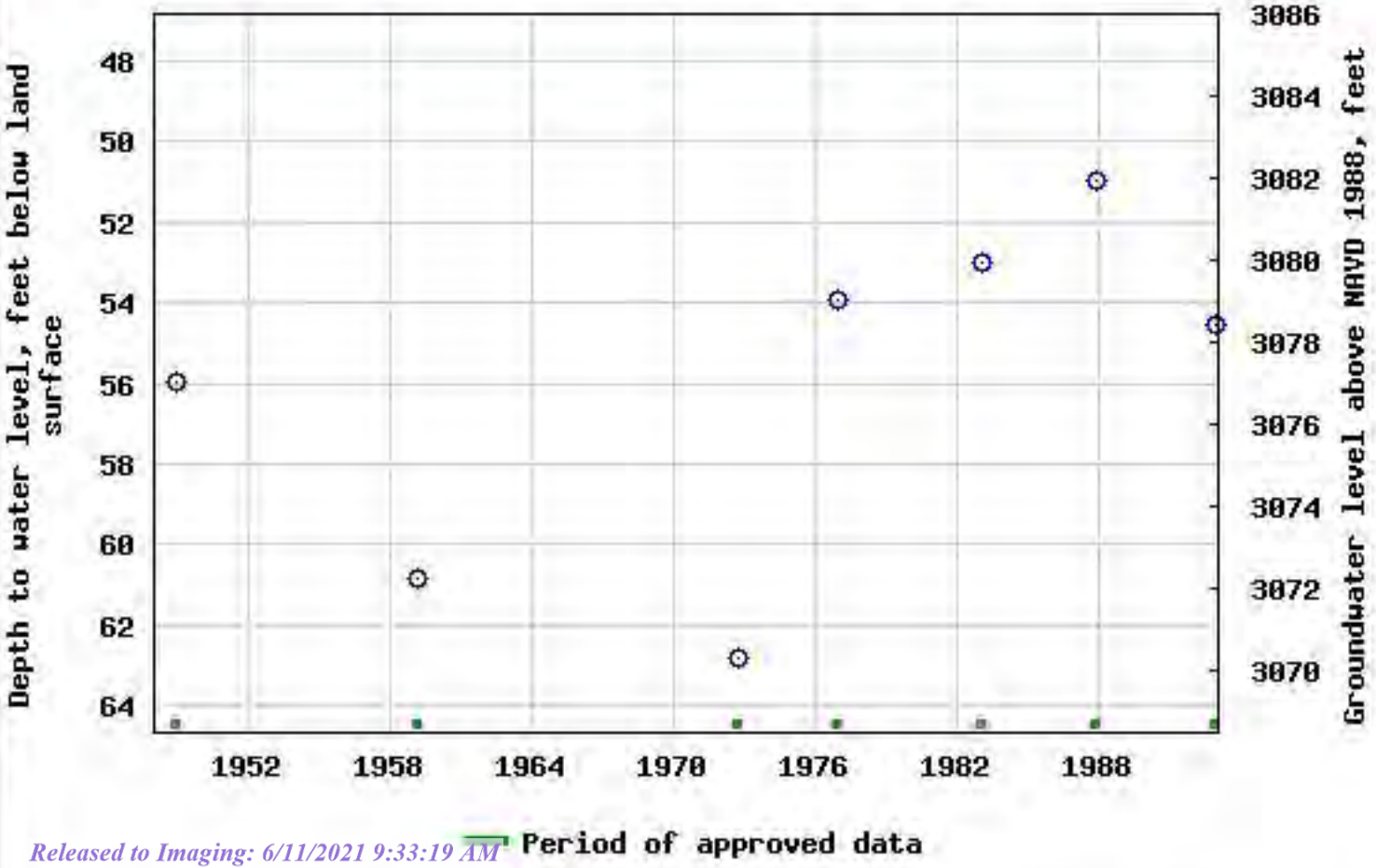
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1948-12-23	1992-12-08	21
Field/Lab water-quality samples	1972-09-12	1972-09-12	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322418103523201 22S.30E.10.31131



USGS 322425103554401 22S.29E.12.24444

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'25", Longitude 103°55'44" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 250 feet
Land surface altitude: 3,168 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

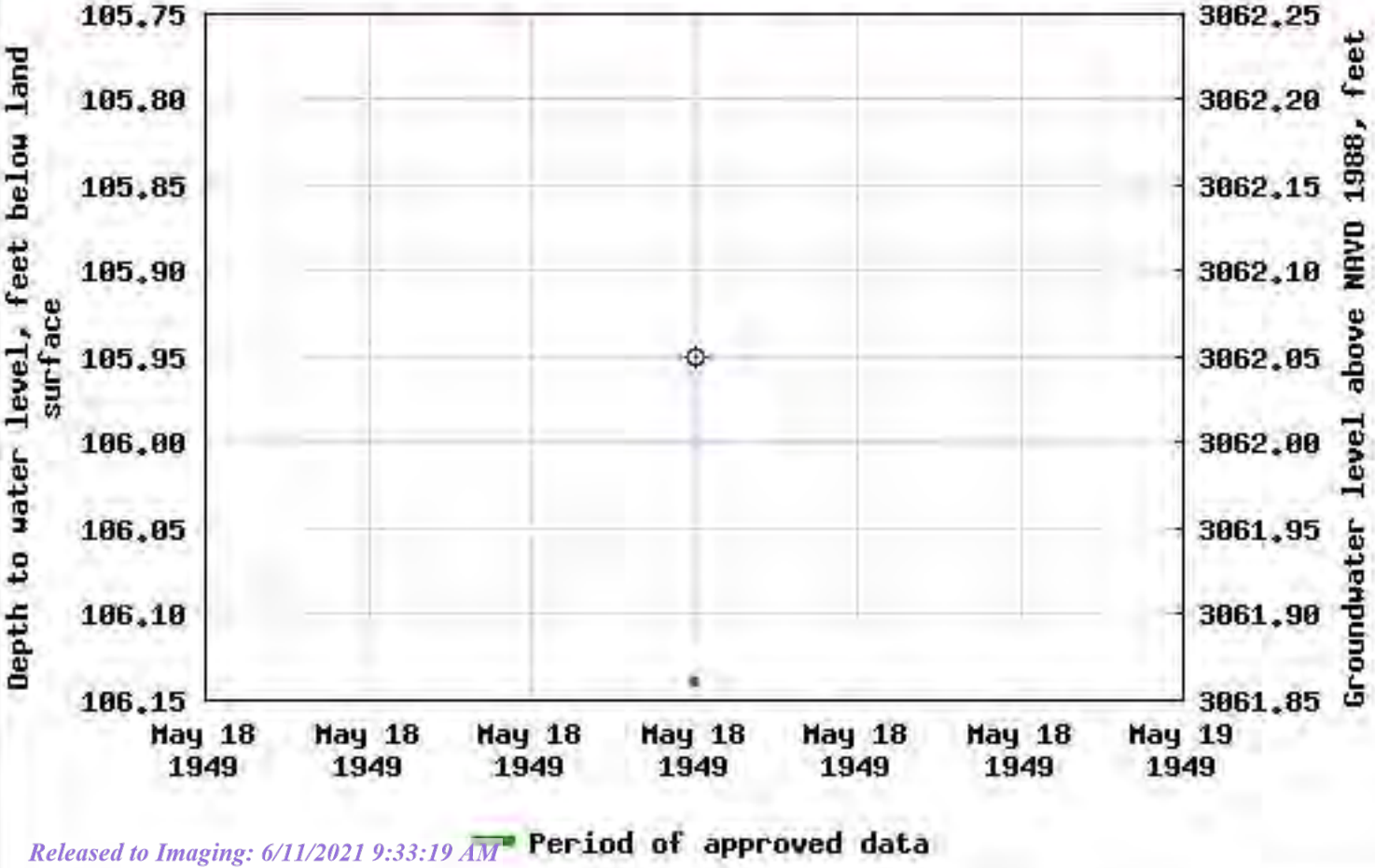
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1949-05-18	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322425103554401 22S.29E.12.24444



USGS 322426103540201 22S.30E.08.23311

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'26", Longitude 103°54'02" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 181 feet
Land surface altitude: 3,152 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

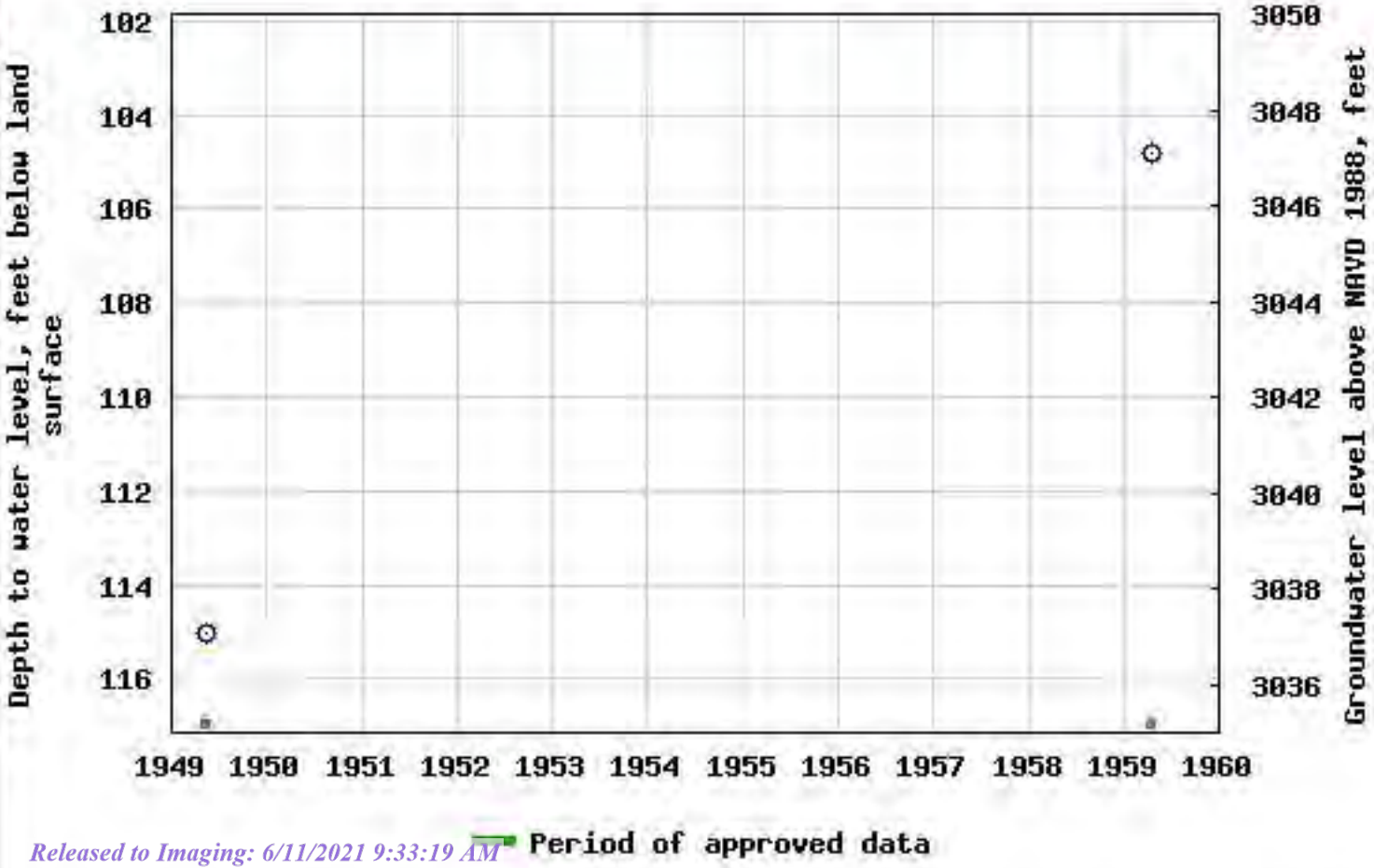
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1959-04-14	6
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322426103540201 22S.30E.08.23311



USGS 322432103543301 22S.30E.07.242224

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'32", Longitude 103°54'33" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 176 feet
Land surface altitude: 3,128 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

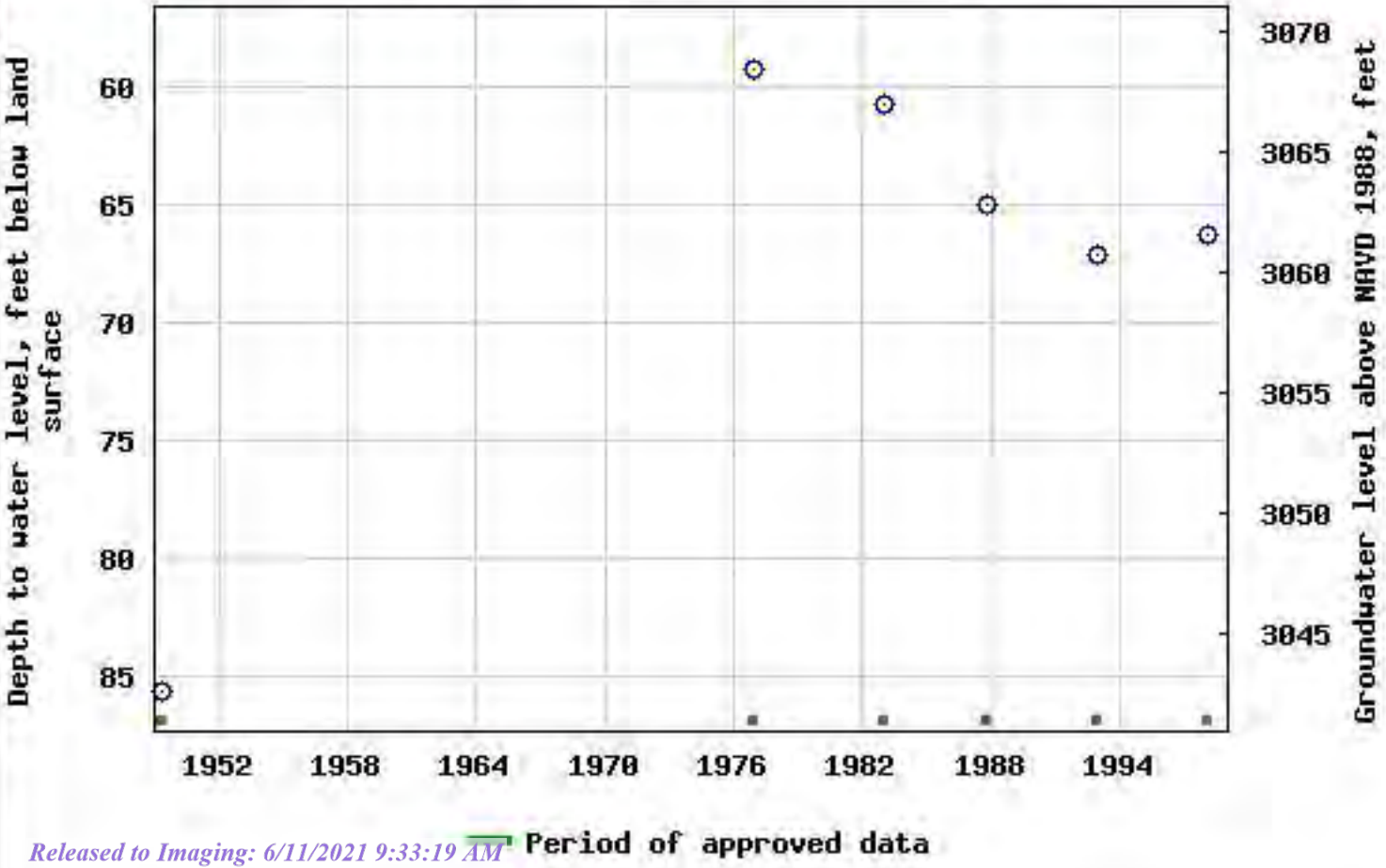
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1998-01-28	18
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322432103543301 22S.30E.07.242224



USGS 322447103550601 22S.30E.06.344434

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'47", Longitude 103°55'06" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,152 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

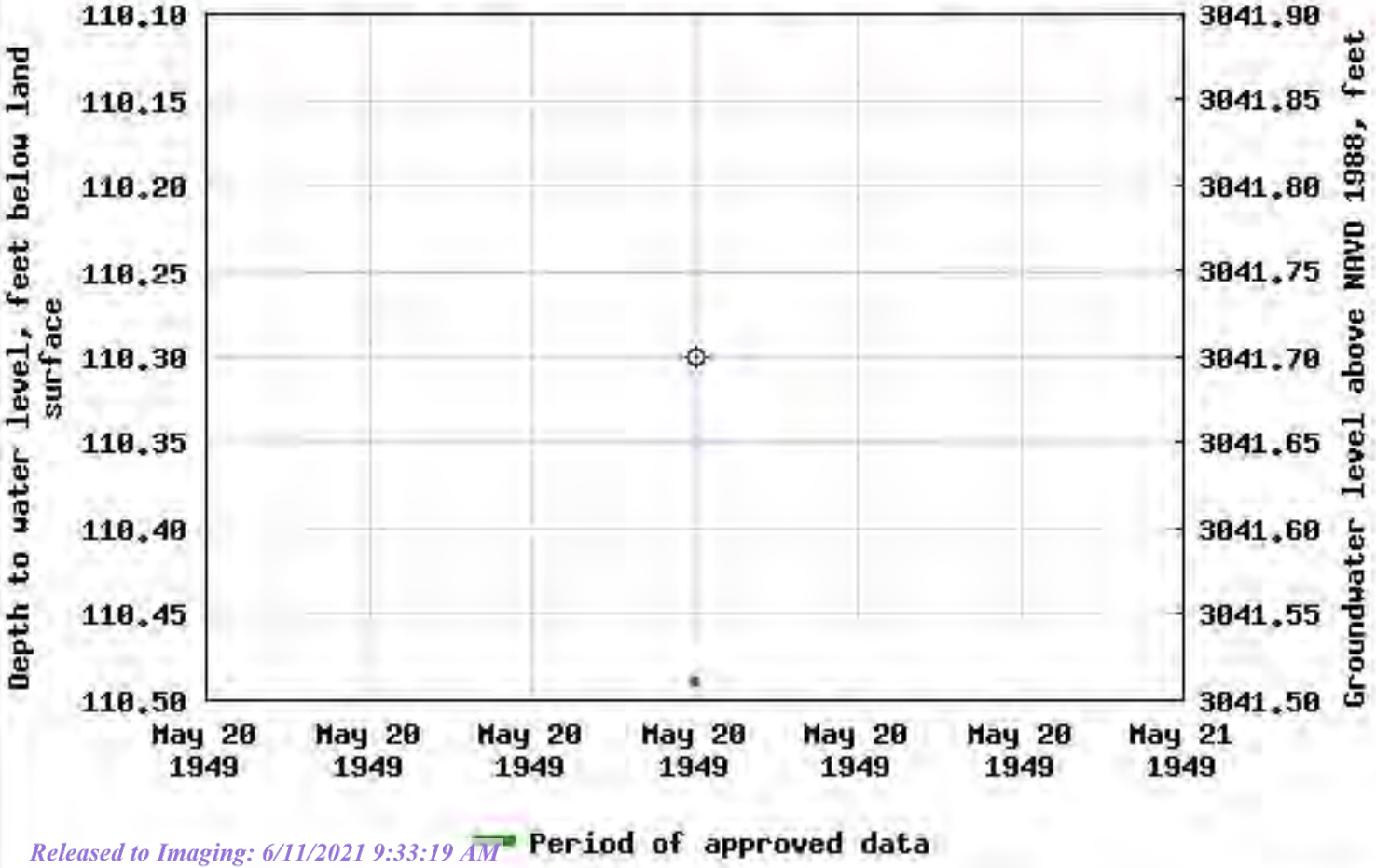
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-20	1949-05-20	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322447103550601 22S.30E.06.344434



USGS 322450103544401 22S.30E.06.444222

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'50", Longitude 103°54'44" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,139 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

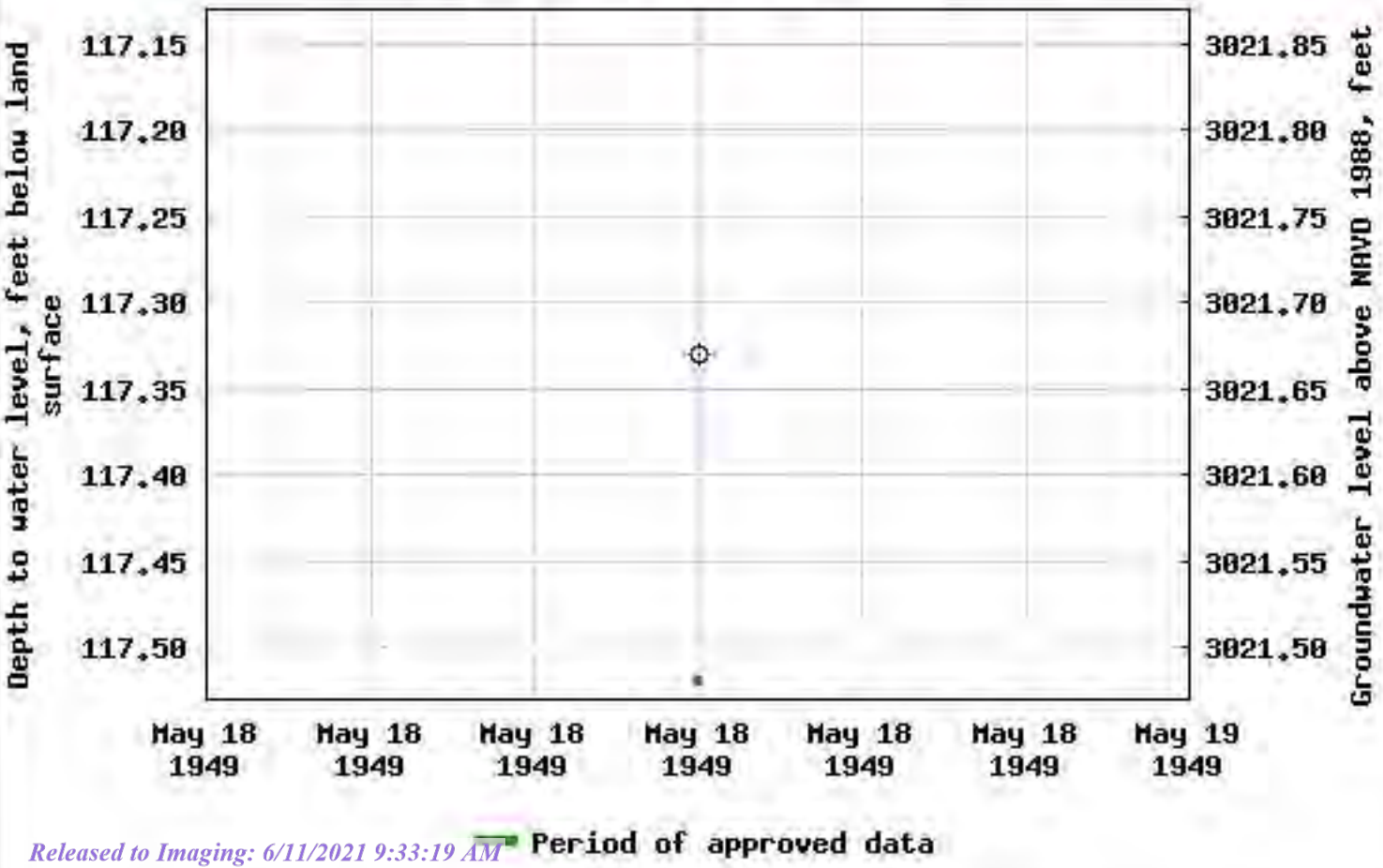
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1949-05-18	3
Field/Lab water-quality samples	1972-09-19	1972-09-19	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322450103544401 22S.30E.06.444222



USGS 322453103534301 22S.30E.05.44143

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'53", Longitude 103°53'43" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,122 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

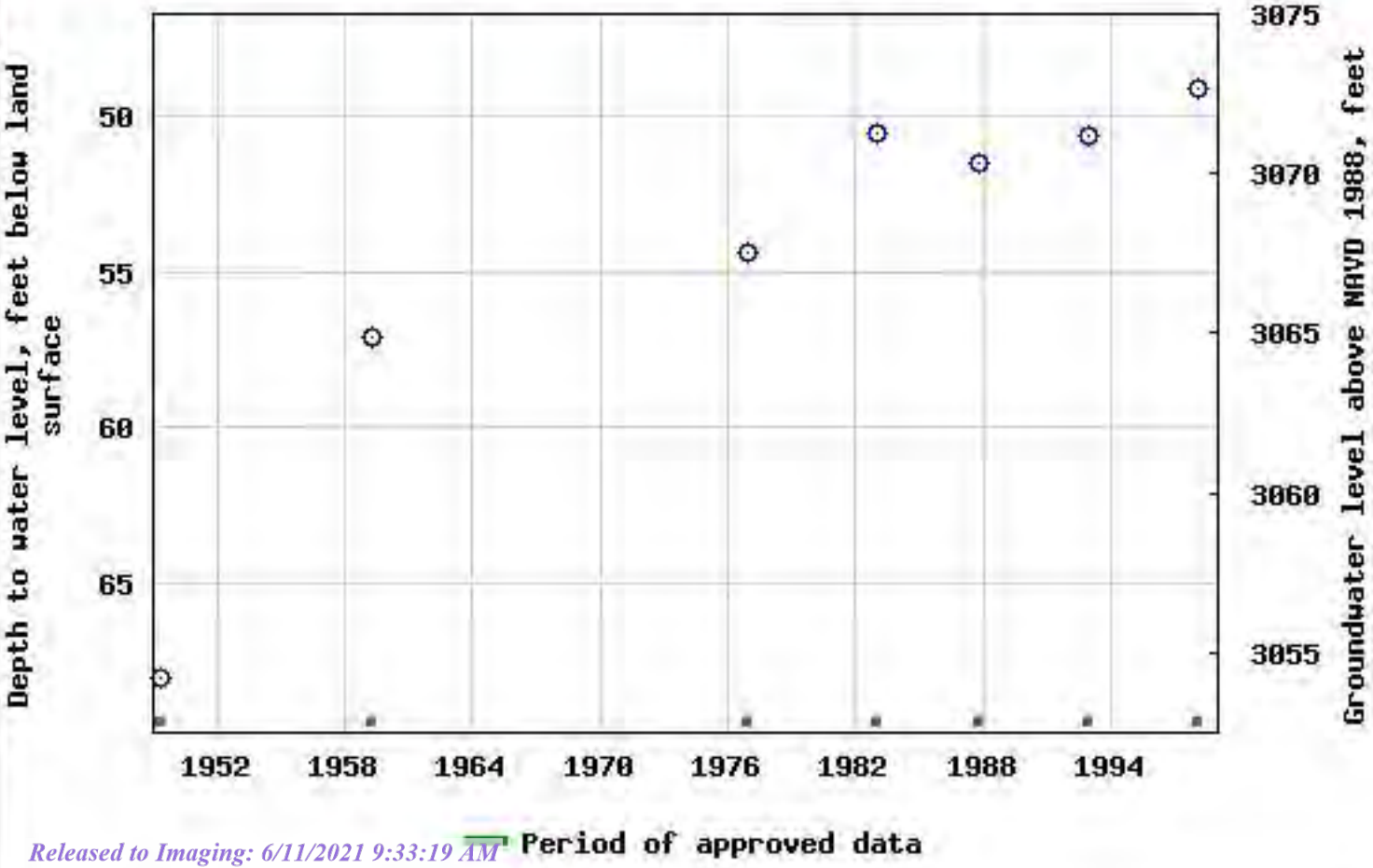
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-19	1998-01-28	21
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322453103534301 22S.30E.05.44143



USGS 322456103535901 22S.30E.05.43114

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°24'56", Longitude 103°53'59" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 225 feet
Land surface altitude: 3,117 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

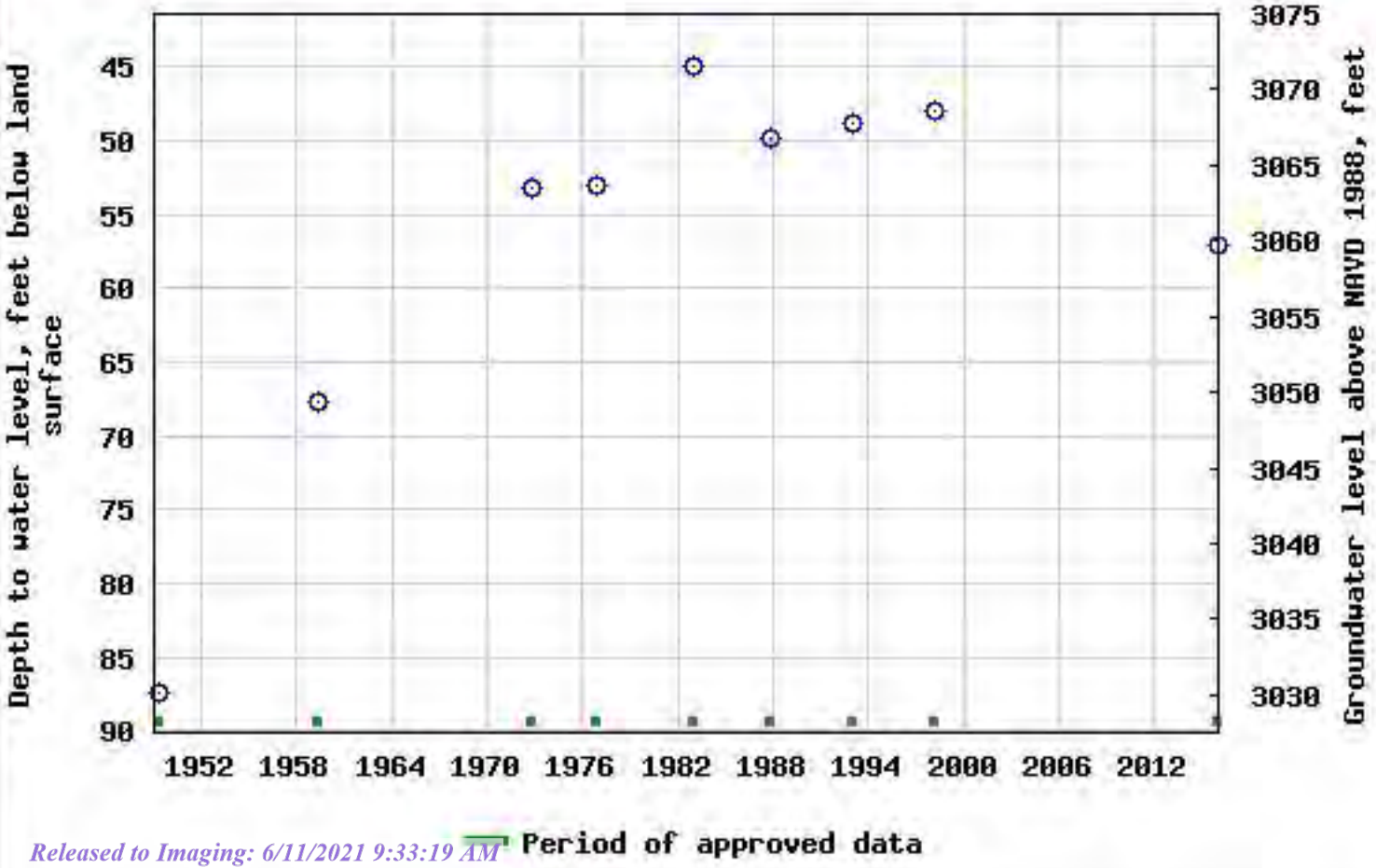
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	2015-12-17	27
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322456103535901 22S.30E.05.43114



USGS 322513103543201 22S.30E.05.13333

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°25'13", Longitude 103°54'32" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,160 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

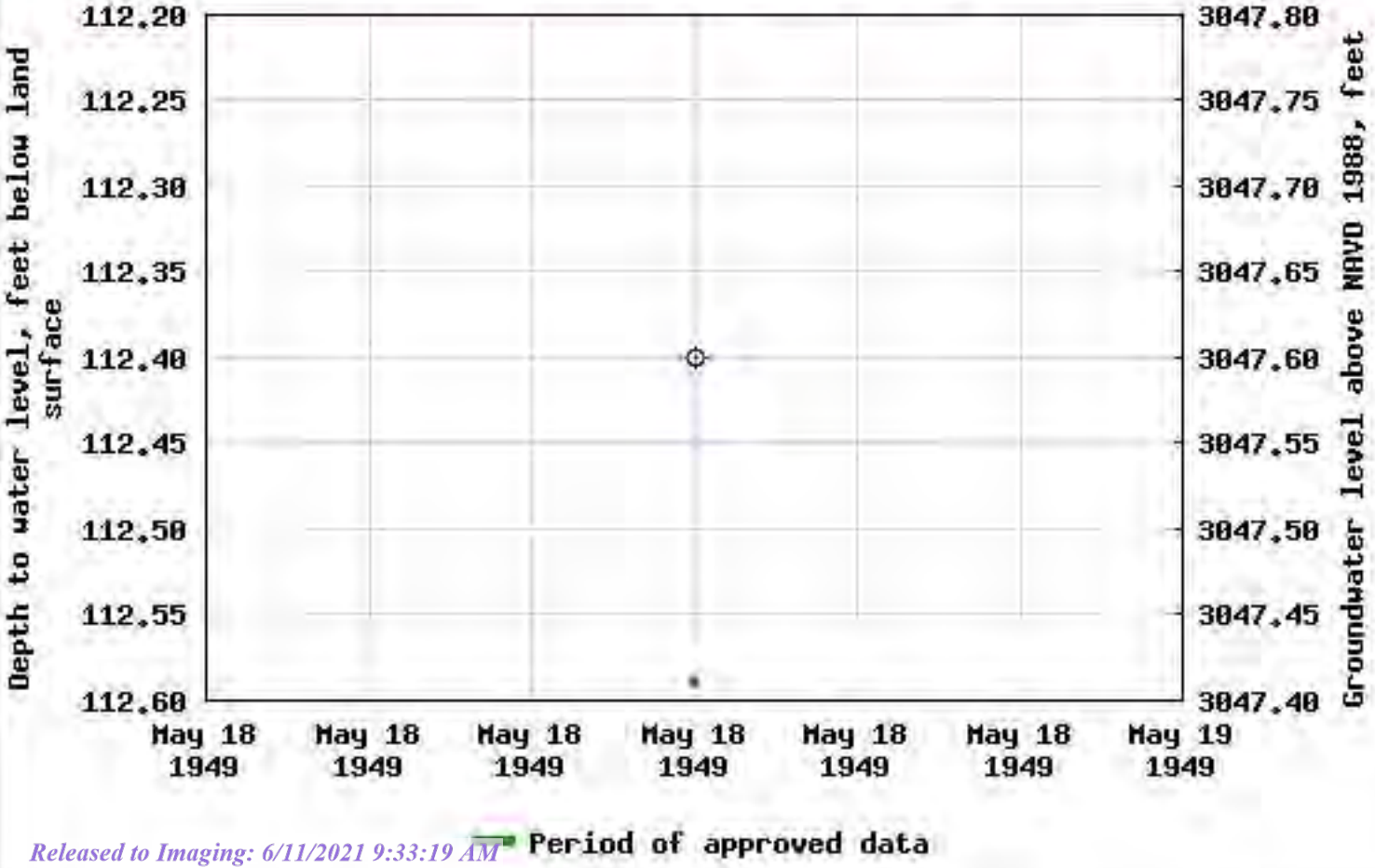
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-05-18	1949-05-18	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 322513103543201 22S.30E.05.13333



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	Y
	C 02111	2	2	2	33	22S	30E	605505	3580336*

Driller License: **Driller Company:**

Driller Name: WINSTON BROS.

Drill Start Date:		**Drill Finish Date:**	11/30/1962	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	29 GPM
Casing Size:	8.75	**Depth Well:**	248 feet	**Depth Water:**	155 feet

Meter Number:	552	**Meter Make:**	SENSUS
Meter Serial Number:	1480245	**Meter Multiplier:**	100.0000
Number of Dials:	5	**Meter Type:**	Diversion
Unit of Measure:	Gallons	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/1998	1999	3519	A	ms		0	
06/30/1999	1999	10119	A	ms		2.025	
09/30/1999	1999	17046	A	ms		2.126	
01/12/2000	1999	23122	A	ms		1.865	
03/31/2000	2000	29277	A	mb		1.889	
06/30/2000	2000	38063	A	RPT		2.696	
09/30/2000	2000	45705	A	RPT		2.345	
12/31/2000	2000	53709	A	RPT		2.456	
03/31/2001	2001	61935	A	RPT		2.524	
06/30/2001	2001	63804	A	RPT		0.574	
10/01/2001	2001	63804	A	RPT		0	
01/01/2002	2001	3924	R	RPT	Meter Rollover	12.312	
04/23/2002	2002	12315	A	RPT		2.575	
07/01/2002	2002	12571	A	rm		0.079	
01/01/2003	2002	14740	A	RPT		0.666	
01/01/2004	2003	14740	A	ab		0	
04/01/2004	2004	14740	A	RPT		0	
10/30/2004	2004	14740	A	RPT		0	
03/31/2005	2005	14740	A	RPT		0	
10/30/2005	2005	14740	A	RPT		0	
12/31/2005	2005	14740	A	RPT		0	
07/07/2006	2006	14740	A	tw		0	
11/01/2006	2006	14740	A	RPT		0	
06/30/2007	2007	14740	A	RPT		0	
09/30/2007	2007	14740	A	RPT		0	

12/31/2007	2007	14740	A	RPT	0
03/31/2008	2008	14740	A	RPT	0
06/30/2008	2008	14740	A	RPT	0
09/30/2008	2008	14740	A	RPT	0
12/31/2008	2008	14740	A	RPT	0
03/31/2009	2009	14740	A	RPT	0
06/30/2009	2009	14740	A	RPT	0
09/30/2009	2009	14740	A	RPT	0
03/31/2010	2010	14740	A	tw	0
07/09/2010	2010	14740	A	RPT	0
10/01/2010	2010	14740	A	RPT	0
12/31/2010	2010	14740	A	RPT	0
03/30/2011	2011	14740	A	tw	0
06/30/2011	2011	14740	A	RPT	0
01/09/2012	2011	14740	A	RPT	0
03/31/2012	2012	14740	A	RPT	0
07/03/2012	2012	14740	A	RPT	0
01/10/2013	2012	14740	A	RPT	0
04/08/2013	2013	14740	A	RPT	0
07/11/2013	2013	14740	A	RPT	0

x

**YTD Meter Amounts:	Year	Amount
	1999	6.016
	2000	9.386
	2001	15.410
	2002	3.320
	2003	0
	2004	0
	2005	0
	2006	0
	2007	0
	2008	0
	2009	0
	2010	0
	2011	0
	2012	0
	2013	0

x

***UTM location was derived from PLSS - see Help**

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	Twn	Rng	X	Y
	C 03015	1	4	3	22	22S	30E	606099	3582353*

x

Driller License: 331 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

Drill Start Date: 01/21/2004 **Drill Finish Date:** 01/25/2004 **Plug Date:**

Log File Date: 03/04/2004 **PCW Rcv Date:** **Source:** Artesian

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 6.00 **Depth Well:** 1316 feet **Depth Water:** 262 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	362	385	Other/Unknown

x

Casing Perforations:	Top	Bottom
	261	386

x

***UTM location was derived from PLSS - see Help**

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	Twn	Rng	X	Y
	C 03587 POD1	1	4	3	29	23S	29E	593338	3570754

x

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E. (LD)

Drill Start Date: 04/13/2013 **Drill Finish Date:** 04/14/2013 **Plug Date:**

Log File Date: 05/07/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 1 GPM

Casing Size: 4.00 **Depth Well:** 99 feet **Depth Water:** 44 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	98	99	Limestone/Dolomite/Chalk

x

Casing Perforations:	Top	Bottom
	89	99

x

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	Twn	Rng	X	Y
	C 03587 POD2	1	2	4	19	23S	29E	592213	3572706

x

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E. (LD)

Drill Start Date: 04/11/2013 **Drill Finish Date:** 04/13/2013 **Plug Date:**

Log File Date: 05/07/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 20 GPM

Casing Size: 4.00 **Depth Well:** 77 feet **Depth Water:** 16 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	61	65	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	61	71

x

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	Twn	Rng	X	Y
	C 03587 POD3	2	4	1	07	22S	29E	601447	3586271

x

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E. (LD)

Drill Start Date: 04/04/2013 **Drill Finish Date:** 04/04/2013 **Plug Date:**

Log File Date: 05/07/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 3 GPM

Casing Size: 2.00 **Depth Well:** 80 feet **Depth Water:** 47 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	65	80	Other/Unknown

x

Casing Perforations:	Top	Bottom
	65	80

x

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	Y
	C 03587 POD4	2	4	4	14	22S	29E	599006	3583977

x

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E. (LD)

Drill Start Date: 04/01/2013 **Drill Finish Date:** 04/02/2013 **Plug Date:**

Log File Date: 05/07/2013 **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 5 GPM

Casing Size: 2.00 **Depth Well:** 79 feet **Depth Water:** 57 feet

x

Casing Perforations:	Top	Bottom
	59	79

x

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	Y
	C 03679 POD1	1	4	2	14	24S	33E	603567	3581547

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC
Driller Name:

Drill Start Date: 10/23/2013 **Drill Finish Date:** 10/29/2013 **Plug Date:**
Log File Date: 11/07/2013 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 20 GPM
Casing Size: 6.00 **Depth Well:** 700 feet **Depth Water:** 575 feet

Water Bearing Stratifications:

Top	Bottom	Description
565	665	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
560	620
660	700

Meter Number: 16576 **Meter Make:** MASTERMETER
Meter Serial Number: 8112524 **Meter Multiplier:** 100.0000
Number of Dials: 6 **Meter Type:** Diversion
Unit of Measure: Gallons **Return Flow Percent:**
Usage Multiplier: **Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
03/01/2014	2014	29030	A	RPT		0	
07/01/2014	2014	49261	A	RPT		6.209	
10/01/2014	2014	68901	A	RPT		6.027	
12/31/2014	2014	84036	A	RPT		4.645	
02/01/2015	2015	89806	A	RPT		1.771	
03/02/2015	2015	92350	A	RPT		0.781	
04/01/2015	2015	96582	A	RPT		1.299	
04/30/2015	2015	104711	A	RPT		2.495	
05/31/2015	2015	111086	A	RPT		1.956	
07/01/2015	2015	118700	A	RPT		2.337	
08/01/2015	2015	123816	A	RPT		1.570	
08/31/2015	2015	130025	A	RPT		1.905	
10/01/2015	2015	135622	A	RPT		1.718	

****YTD Meter Amounts:**

Year	Amount
2014	16.881
2015	15.832

POINT OF DIVERSION SUMMARY

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH01	Date: 3/3/2021
Site Name: James Ranch Unit DI 1A	
RP or Incident Number:	
LTE Job Number: TE012921002	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By SL	Method: Hand Auger		
Lat/Long: 32.379690,-103.885744	Field Screening: Chloride, PID	Hole Diameter: 4"	Total Depth: 4'

Comments:
TD @ 4', chloride field screening values include 60% error factor

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4' Sandy clay, m-f grained, well sorted, brown, no odor, no stain, low plasticity, non cohesive, dry
						1		
D	<186	1.9	N	BH01	2'	2	SP-SC	
						3		
D	<186	2.0	N	BH01A	4'	4		
						5		TD @ 4'
						6		
						7		
						8		
						9		
						10		
						11		
						12		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH02	Date: 3/3/2021
Site Name: James Ranch Unit DI 1A	
RP or Incident Number:	
LTE Job Number: TE012921002	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By SL	Method: Hand Auger		
Lat/Long: 32.379685, -103.885749	Field Screening: Chloride, PID	Hole Diameter: 4"	Total Depth: 4'

Comments:
TD @ 4', chloride field screening values include 60% error factor

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4' Sandy clay, m-f grained, well sorted, brown, no odor, no stain, low plasticity, non cohesive, dry
						1		
D	<186	0.8	N	BH02	2'	2	SP-SC	
						3		-3' gypsum inclusions
D	<186	0.2	N	BH02A	4'	4		
								TD @ 4'
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	James Ranch Unit DI 1A Eddy County, New Mexico	TE012921002

Photo No.	Date
1	January 15, 2021 – March 3, 2021

Northern view of flare release area.

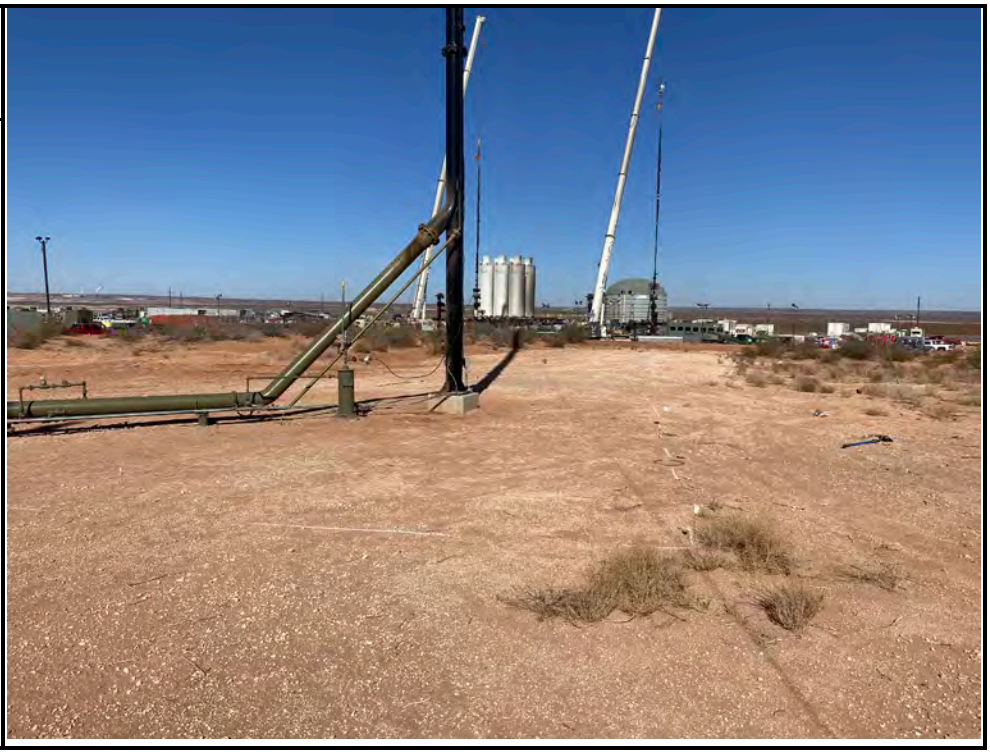


Photo No.	Date
2	January 15, 2021 – March 3, 2021

Western view of flare release area.

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	James Ranch Unit DI 1A Eddy County, New Mexico	TE012921002

Photo No.	Date
3	January 15, 2021 – March 3, 2021

Northern view of borehole BH01.

Photo No.	Date
4	January 15, 2021 – March 3, 2021

Northwestern view of BH01.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

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Certificate of Analysis Summary 684890

WSP USA, Dallas, TX

Project Name: JRU 01 AL Tank Battery

Project Id: 1082151001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri 01.15.2021 12:40
Report Date: 01.19.2021 07:51
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	684890-001		684890-002					
	Field Id:	SS01		SS02					
	Depth:	0.3- ft		0.3- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	01.15.2021 11:23		01.15.2021 11:26					
BTEX by EPA 8021B	***Extracted:***	01.15.2021 13:00		01.15.2021 13:00					
	Analyzed:	01.16.2021 00:41		01.16.2021 01:04					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00201	0.00201				
Toluene		<0.00199	0.00199	<0.00201	0.00201				
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201				
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402				
o-Xylene		<0.00199	0.00199	<0.00201	0.00201				
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201				
Total BTEX		<0.00199	0.00199	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	01.15.2021 15:00		01.15.2021 15:00					
	Analyzed:	01.15.2021 21:31		01.15.2021 21:36					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		34.4	10.0	44.4	10.1				
TPH by SW8015 Mod	***Extracted:***	** ** ** **		01.15.2021 16:00					
	Analyzed:	01.15.2021 19:24		01.15.2021 19:44					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1				
Diesel Range Organics (DRO)		87.0	50.3	<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1				
Total GRO-DRO		87.0	50.3	<50.1	50.1				
Total TPH		87.0	50.3	<50.1	50.1				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 684890

for

WSP USA

Project Manager: Dan Moir

JRU 01 AL Tank Battery

1082151001

01.19.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.19.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684890**
JRU 01 AL Tank Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684890. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684890 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	01.15.2021 11:23	0.3 ft	684890-001
SS02	S	01.15.2021 11:26	0.3 ft	684890-002

CASE NARRATIVE

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Client Name: WSP USA

Project Name: JRU 01 AL Tank Battery

Project ID: *1082151001*
Work Order Number(s): *684890*

Report Date: *01.19.2021*
Date Received: *01.15.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	01.15.2021 12:40
Lab Sample Id:	684890-001	Date Collected:	01.15.2021 11:23	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.15.2021 15:00	% Moisture:	
Seq Number:	3148036			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.4**	10.0	mg/kg	01.18.2021 10:45		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.15.2021 12:00	% Moisture:	
Seq Number:	3148053			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.15.2021 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	**87.0**	50.3	mg/kg	01.15.2021 19:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.15.2021 19:24	U	1
Total GRO-DRO	PHC628	**87.0**	50.3	mg/kg	01.15.2021 19:24		1
Total TPH	PHC635	**87.0**	50.3	mg/kg	01.15.2021 19:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.15.2021 19:24	
o-Terphenyl	84-15-1	118	%	70-135	01.15.2021 19:24	

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Certificate of Analytical Results 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	01.15.2021 12:40
Lab Sample Id:	684890-001	Date Collected:	01.15.2021 11:23	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.15.2021 13:00	% Moisture:	
Seq Number:	3148046			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.16.2021 00:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.16.2021 00:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.16.2021 00:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.16.2021 00:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.16.2021 00:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.16.2021 00:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.16.2021 00:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.16.2021 00:41	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.16.2021 00:41	

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Certificate of Analytical Results 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	01.15.2021 12:40
Lab Sample Id:	684890-002	Date Collected:	01.15.2021 11:26	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.15.2021 15:00	% Moisture:	
Seq Number:	3148036			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.4**	10.1	mg/kg	01.18.2021 10:51		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.15.2021 16:00	% Moisture:	
Seq Number:	3148053			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.15.2021 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.15.2021 19:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.15.2021 19:44	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	01.15.2021 19:44	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.15.2021 19:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	01.15.2021 19:44	
o-Terphenyl	84-15-1	108	%	70-135	01.15.2021 19:44	

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Certificate of Analytical Results 684890

WSP USA, Dallas, TX

JRU 01 AL Tank Battery

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	01.15.2021 12:40
Lab Sample Id:	684890-002	Date Collected:	01.15.2021 11:26	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.15.2021 13:00	% Moisture:	
Seq Number:	3148046			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.16.2021 01:04	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.16.2021 01:04	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.16.2021 01:04	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.16.2021 01:04	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.16.2021 01:04	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.16.2021 01:04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.16.2021 01:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	01.16.2021 01:04	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.16.2021 01:04	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 684890

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WSP USA

JRU 01 AL Tank Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148036 — Matrix: Solid — Date Prep: 01.15.2021
MB Sample Id: 7719346-1-BLK — LCS Sample Id: 7719346-1-BKS — LCSD Sample Id: 7719346-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	212	106	203	102	90-110	4	20	mg/kg	01.15.2021 18:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148036 — Matrix: Soil — Date Prep: 01.15.2021
Parent Sample Id: 684808-015 — MS Sample Id: 684808-015 S — MSD Sample Id: 684808-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1530	200	1730	100	1730	101	90-110	0	20	mg/kg	01.15.2021 19:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148036 — Matrix: Soil — Date Prep: 01.15.2021
Parent Sample Id: 684808-025 — MS Sample Id: 684808-025 S — MSD Sample Id: 684808-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	690	202	874	91	894	103	90-110	2	20	mg/kg	01.15.2021 20:34	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148053 — Matrix: Solid — Date Prep: 01.15.2021
MB Sample Id: 7719351-1-BLK — LCS Sample Id: 7719351-1-BKS — LCSD Sample Id: 7719351-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	983	98	934	93	70-135	5	35	mg/kg	01.15.2021 13:39	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	916	92	70-135	12	35	mg/kg	01.15.2021 13:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		91		113		70-135	%	01.15.2021 13:39
o-Terphenyl	93		101		87		70-135	%	01.15.2021 13:39

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148053 — Matrix: Solid — Date Prep: 01.15.2021
MB Sample Id: 7719351-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.15.2021 13:18	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 684890

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WSP USA

JRU 01 AL Tank Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3148053 Matrix: Soil Date Prep: 01.15.2021
Parent Sample Id: 684808-015 MS Sample Id: 684808-015 S MSD Sample Id: 684808-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1200	120	1120	112	70-135	7	35	mg/kg	01.15.2021 14:39	
Diesel Range Organics (DRO)	<50.1	1000	1120	112	1080	108	70-135	4	35	mg/kg	01.15.2021 14:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		115		70-135	%	01.15.2021 14:39
o-Terphenyl	108		104		70-135	%	01.15.2021 14:39

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148046 Matrix: Solid Date Prep: 01.15.2021
MB Sample Id: 7719357-1-BLK LCS Sample Id: 7719357-1-BKS LCSD Sample Id: 7719357-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.104	104	70-130	6	35	mg/kg	01.15.2021 14:05	
Toluene	<0.00200	0.100	0.106	106	0.102	102	70-130	4	35	mg/kg	01.15.2021 14:05	
Ethylbenzene	<0.00200	0.100	0.0989	99	0.0955	96	71-129	3	35	mg/kg	01.15.2021 14:05	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.196	98	70-135	4	35	mg/kg	01.15.2021 14:05	
o-Xylene	<0.00200	0.100	0.0987	99	0.0950	95	71-133	4	35	mg/kg	01.15.2021 14:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		94		95		70-130	%	01.15.2021 14:05
4-Bromofluorobenzene	88		85		84		70-130	%	01.15.2021 14:05

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148046 Matrix: Soil Date Prep: 01.15.2021
Parent Sample Id: 684657-001 MS Sample Id: 684657-001 S MSD Sample Id: 684657-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.115	115	0.123	122	70-130	7	35	mg/kg	01.15.2021 14:50	
Toluene	<0.00201	0.100	0.105	105	0.112	111	70-130	6	35	mg/kg	01.15.2021 14:50	
Ethylbenzene	0.00489	0.100	0.0822	77	0.0947	89	71-129	14	35	mg/kg	01.15.2021 14:50	
m,p-Xylenes	0.0106	0.201	0.171	80	0.196	92	70-135	14	35	mg/kg	01.15.2021 14:50	
o-Xylene	0.00853	0.100	0.0841	76	0.0977	88	71-133	15	35	mg/kg	01.15.2021 14:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		93		70-130	%	01.15.2021 14:50
4-Bromofluorobenzene	89		82		70-130	%	01.15.2021 14:50

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
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)
www.xenco.com

Work Order No: 684890

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Jeremy.Hill@wsp.com, Dan.Moir@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	JRU 01 A1 Tank Battery	Turn Around	
Project Number:	In# NAPP2035254726	Routine	☑
P.O. Number:	CC# 1082151001	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.0/0.8	Thermometer ID	TNM007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	1/15/21	1123	0.3'	1	X	X	X	discrete
SS02	S	1/15/21	1126	0.3'	1	X	X	X	discrete

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		01/15/21 12:40	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.15.2021 12.40.00 PM

Work Order #: 684890

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 01.15.2021

Checklist reviewed by: Jessica Kramer Date: 01.18.2021

Jessica Kramer

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-260-1
Laboratory Sample Delivery Group: TE012921002
Client Project/Site: James Ranch Unit DI 1A

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

Attn: Dan Moir

JKramer

Authorized for release by:
3/11/2021 5:43:39 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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.

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Laboratory Job ID: 890-260-1
SDG: TE012921002

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-260-1
Project/Site: James Ranch Unit DI 1A SDG: TE012921002

Qualifiers

Subcontract

Qualifier	Qualifier Description
F	RPD exceeded lab control limits.
U	Analyte was not detected.
X	MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference

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
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.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Job ID: 890-260-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-260-1

Receipt
The samples were received on 3/4/2021 3:30 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

Receipt Exceptions
The following samples analyzed for method BTEX8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-260-1), BH01 A (890-260-2), BH02 (890-260-3) and BH02 A (890-260-4).

Client Sample Results

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Client Sample ID: BH01

Date Collected: 03/03/21 11:00
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-1
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/09/21 16:00	03/10/21 08:12	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Toluene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene	*94*		*70 - 130*	*03/09/21 16:00*	*03/10/21 08:12*	*1*
4-Bromofluorobenzene	*96*		*70 - 130*	*03/09/21 16:00*	*03/10/21 08:12*	*1*

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.6**		4.99		mg/kg		03/07/21 16:10	03/08/21 08:24	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Total TPH	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 135*	*03/10/21 17:00*	*03/11/21 06:15*	*1*
o-Terphenyl	*95*		*70 - 135*	*03/10/21 17:00*	*03/11/21 06:15*	*1*

Client Sample ID: BH01 A

Date Collected: 03/03/21 11:15
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-2
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/09/21 16:00	03/10/21 08:33	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Toluene	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/09/21 16:00	03/10/21 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene	*94*		*70 - 130*	*03/09/21 16:00*	*03/10/21 08:33*	*1*
4-Bromofluorobenzene	*97*		*70 - 130*	*03/09/21 16:00*	*03/10/21 08:33*	*1*

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.7**		4.96		mg/kg		03/07/21 16:10	03/08/21 08:31	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Client Sample ID: BH01 A
Date Collected: 03/03/21 11:15
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-2
Matrix: Solid

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1
Total TPH	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*03/10/21 17:00*	*03/11/21 05:34*	*1*
o-Terphenyl	*84*		*70 - 135*	*03/10/21 17:00*	*03/11/21 05:34*	*1*

Client Sample ID: BH02
Date Collected: 03/03/21 11:30
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-3
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/09/21 16:00	03/10/21 08:53	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Toluene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene	*91*		*70 - 130*	*03/09/21 16:00*	*03/10/21 08:53*	*1*
4-Bromofluorobenzene	*101*		*70 - 130*	*03/09/21 16:00*	*03/10/21 08:53*	*1*

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.9**		4.95		mg/kg		03/07/21 16:10	03/07/21 20:46	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1
Total TPH	<50.0	U	50.0		mg/kg		03/10/21 17:00	03/11/21 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 135*	*03/10/21 17:00*	*03/11/21 05:55*	*1*
o-Terphenyl	*80*		*70 - 135*	*03/10/21 17:00*	*03/11/21 05:55*	*1*

Client Sample ID: BH02 A
Date Collected: 03/03/21 11:45
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-4
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/09/21 16:00	03/10/21 09:14	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
Toluene	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Client Sample ID: BH02 A
Date Collected: 03/03/21 11:45
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-4
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/09/21 16:00	03/10/21 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene	*93*		*70 - 130*	*03/09/21 16:00*	*03/10/21 09:14*	*1*
4-Bromofluorobenzene	*97*		*70 - 130*	*03/09/21 16:00*	*03/10/21 09:14*	*1*

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.03		mg/kg		03/07/21 16:10	03/08/21 08:38	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 06:15	1
Total TPH	<49.9	U	49.9		mg/kg		03/10/21 17:00	03/11/21 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 135*	*03/10/21 17:00*	*03/11/21 06:15*	*1*
o-Terphenyl	*78*		*70 - 135*	*03/10/21 17:00*	*03/11/21 06:15*	*1*

Surrogate Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(70-130)
690554-005 S	Matrix Spike	105
690554-005 SD	Matrix Spike Duplicate	109
7722919-1-BKS	Lab Control Sample	106
7722919-1-BLK	Method Blank	91
7722919-1-BSD	Lab Control Sample Dup	110

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: BTEX 8021 - General Subcontract Method

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB	DFBZ
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-260-1	BH01	96	94
890-260-2	BH01 A	97	94
890-260-3	BH02	101	91
890-260-4	BH02 A	97	93

Surrogate Legend

BFB = 4-Bromofluorobenzene
DFBZ = 1,4-Difluorobenzene

Method: TPH 8015_NM_MOD - General Subcontract Method

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO	OTPH
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
890-260-1	BH01	108	95
890-260-2	BH01 A	92	84
890-260-3	BH02	83	80
890-260-4	BH02 A	82	78

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7722919-1-BLK
Matrix: SOIL
Analysis Batch: 3153059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3153059_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
Ethylbenzene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/09/21 16:00	03/10/21 05:49	1
o-Xylene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1
Toluene	<.002	U	.002		mg/kg		03/09/21 16:00	03/10/21 05:49	1

Surrogate	*BLANK %Recovery*	*BLANK Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*70 - 130*	*03/09/21 16:00*	*03/10/21 05:49*	*1*

Lab Sample ID: 7722919-1-BKS
Matrix: SOIL
Analysis Batch: 3153059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3153059_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			.1	0.107		mg/kg		107	70 - 130		
Ethylbenzene			.1	0.0967		mg/kg		97	71 - 129		
m,p-Xylenes			.2	0.199		mg/kg		100	70 - 135		
o-Xylene			.1	0.103		mg/kg		103	71 - 133		
Toluene			.1	0.0984		mg/kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*70 - 130*

Lab Sample ID: 7722919-1-BSD
Matrix: SOIL
Analysis Batch: 3153059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3153059_P

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			.1	0.108		mg/kg		108	70 - 130	1	35
Ethylbenzene			.1	0.103		mg/kg		103	71 - 129	6	35
m,p-Xylenes			.2	0.213		mg/kg		107	70 - 135	7	35
o-Xylene			.1	0.110		mg/kg		110	71 - 133	7	35
Toluene			.1	0.102		mg/kg		102	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*70 - 130*

Lab Sample ID: 690554-005 S
Matrix: SOIL
Analysis Batch: 3153059

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3153059_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<.00199		.1	0.0899		mg/kg		90	70 - 130		
Ethylbenzene	<.00199		.1	0.0846		mg/kg		85	71 - 129		
m,p-Xylenes	<.00398		.2	0.174		mg/kg		87	70 - 135		
o-Xylene	<.00199		.1	0.0899		mg/kg		90	71 - 133		
Toluene	<.00199		.1	0.0843		mg/kg		84	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 690554-005 S
Matrix: SOIL
Analysis Batch: 3153059

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3153059_P

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130

Lab Sample ID: 690554-005 SD
Matrix: SOIL
Analysis Batch: 3153059

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3153059_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.00199		.0994	0.0614	X F	mg/kg		62	70 - 130	38	35
Ethylbenzene	<.00199		.0994	0.0628	X	mg/kg		63	71 - 129	30	35
m,p-Xylenes	<.00398		.199	0.132	X	mg/kg		66	70 - 135	27	35
o-Xylene	<.00199		.0994	0.0701		mg/kg		71	71 - 133	25	35
Toluene	<.00199		.0994	0.0601	X	mg/kg		60	70 - 130	34	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	109		70 - 130

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7722690-1-BLK
Matrix: SOIL
Analysis Batch: 3152792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152792_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/07/21 16:10	03/07/21 17:27	1

Lab Sample ID: 7722690-1-BKS
Matrix: SOIL
Analysis Batch: 3152792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152792_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	255		mg/kg		102	80 - 120		

Lab Sample ID: 7722690-1-BSD
Matrix: SOIL
Analysis Batch: 3152792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152792_P

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	254		mg/kg		102	80 - 120	0	20

Lab Sample ID: 689502-003 S
Matrix: SOIL
Analysis Batch: 3152792

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152792_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	679		249	883	X	mg/kg		82	80 - 120		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-260-1
Project/Site: James Ranch Unit DI 1A SDG: TE012921002

Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 689502-003 SD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3152792 — **Prep Batch: 3152792_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	679		249	884	X	mg/kg		82	80 - 120	0	20

Lab Sample ID: 690554-005 S — **Client Sample ID: Matrix Spike**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3152792 — **Prep Batch: 3152792_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	36.9		250	310		mg/kg		109	80 - 120

Lab Sample ID: 690554-005 SD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3152792 — **Prep Batch: 3152792_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	36.9		250	310		mg/kg		109	80 - 120	0	20

Method: TPH 8015_NM_MOD - General Subcontract Method

Lab Sample ID: 7723045-1-BLK — **Client Sample ID: Method Blank**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153290 — **Prep Batch: 3153290_P**

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1

Lab Sample ID: 7723045-1-BKS — **Client Sample ID: Lab Control Sample**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153290 — **Prep Batch: 3153290_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	1000		mg/kg		100	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	1080		mg/kg		108	70 - 135

Lab Sample ID: 7723045-1-BSD — **Client Sample ID: Lab Control Sample Dup**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153290 — **Prep Batch: 3153290_P**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	1030		mg/kg		103	70 - 135	3	20
Gasoline Range Hydrocarbons (GRO)	1000	1090		mg/kg		109	70 - 135	1	20

Lab Sample ID: 691112-001 S — **Client Sample ID: Matrix Spike**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153290 — **Prep Batch: 3153290_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<50		996	947		mg/kg		95	70 - 135

QC Sample Results

Client: WSP USA Inc. Job ID: 890-260-1
Project/Site: James Ranch Unit DI 1A SDG: TE012921002

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 691112-001 S — **Client Sample ID: Matrix Spike**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153290 — **Prep Batch: 3153290_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons (GRO)	<50		996	1020		mg/kg		102	70 - 135

Lab Sample ID: 691112-001 SD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153290 — **Prep Batch: 3153290_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<50		999	970		mg/kg		97	70 - 135	2	20
Gasoline Range Hydrocarbons (GRO)	<50		999	1040		mg/kg		104	70 - 135	2	20

Lab Sample ID: 7723047-1-BLK — **Client Sample ID: Method Blank**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153292 — **Prep Batch: 3153292_P**

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/10/21 17:00	03/10/21 21:38	1

Lab Sample ID: 7723047-1-BKS — **Client Sample ID: Lab Control Sample**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153292 — **Prep Batch: 3153292_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	1070		mg/kg		107	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	1150		mg/kg		115	70 - 135

Lab Sample ID: 7723047-1-BSD — **Client Sample ID: Lab Control Sample Dup**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153292 — **Prep Batch: 3153292_P**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	921		mg/kg		92	70 - 135	15	20
Gasoline Range Hydrocarbons (GRO)	1000	1040		mg/kg		104	70 - 135	10	20

Lab Sample ID: 691123-001 S — **Client Sample ID: Matrix Spike**
Matrix: SOIL — **Prep Type: Total/NA**
Analysis Batch: 3153292 — **Prep Batch: 3153292_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<49.9		997	906		mg/kg		91	70 - 135
Gasoline Range Hydrocarbons (GRO)	<49.9		997	1020		mg/kg		102	70 - 135

QC Sample Results

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 691123-001 SD
Matrix: SOIL
Analysis Batch: 3153292

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3153292_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<49.9		998	911		mg/kg		91	70 - 135	1	20
Gasoline Range Hydrocarbons (GRO)	<49.9		998	1030		mg/kg		103	70 - 135	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Subcontract

Analysis Batch: 3152792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	CHLORIDE E300	3152792_P
890-260-2	BH01 A	Total/NA	Solid	CHLORIDE E300	3152792_P
890-260-3	BH02	Total/NA	Solid	CHLORIDE E300	3152792_P
890-260-4	BH02 A	Total/NA	Solid	CHLORIDE E300	3152792_P
7722690-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3152792_P
7722690-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3152792_P
7722690-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3152792_P
689502-003 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3152792_P
689502-003 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E300	3152792_P
690554-005 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3152792_P
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E300	3152792_P

Analysis Batch: 3153059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	BTEX 8021	3153059_P
890-260-2	BH01 A	Total/NA	Solid	BTEX 8021	3153059_P
890-260-3	BH02	Total/NA	Solid	BTEX 8021	3153059_P
890-260-4	BH02 A	Total/NA	Solid	BTEX 8021	3153059_P
7722919-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153059_P
7722919-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153059_P
7722919-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153059_P
690554-005 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153059_P
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153059_P

Analysis Batch: 3153290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	TPH 8015_NM_MOD	3153290_P
7723045-1-BLK	Method Blank	Total/NA	SOIL	TPH 8015_NM_MOD	3153290_P
7723045-1-BKS	Lab Control Sample	Total/NA	SOIL	TPH 8015_NM_MOD	3153290_P
7723045-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	TPH 8015_NM_MOD	3153290_P
691112-001 S	Matrix Spike	Total/NA	SOIL	TPH 8015_NM_MOD	3153290_P
691112-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	TPH 8015_NM_MOD	3153290_P

Analysis Batch: 3153292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-2	BH01 A	Total/NA	Solid	TPH 8015_NM_MOD	3153292_P
890-260-3	BH02	Total/NA	Solid	TPH 8015_NM_MOD	3153292_P
890-260-4	BH02 A	Total/NA	Solid	TPH 8015_NM_MOD	3153292_P
7723047-1-BLK	Method Blank	Total/NA	SOIL	TPH 8015_NM_MOD	3153292_P
7723047-1-BKS	Lab Control Sample	Total/NA	SOIL	TPH 8015_NM_MOD	3153292_P
7723047-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	TPH 8015_NM_MOD	3153292_P

QC Association Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Subcontract (Continued)

Analysis Batch: 3153292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
691123-001 S	Matrix Spike	Total/NA	SOIL	TPH 8015_NM_MOD	3153292_P
691123-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	TPH 8015_NM_MOD	3153292_P

Prep Batch: 3152792_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	E300P	
890-260-2	BH01 A	Total/NA	Solid	E300P	
890-260-3	BH02	Total/NA	Solid	E300P	
890-260-4	BH02 A	Total/NA	Solid	E300P	
7722690-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7722690-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7722690-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
689502-003 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
689502-003 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	
690554-005 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153059_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	SW5035A	
890-260-2	BH01 A	Total/NA	Solid	SW5035A	
890-260-3	BH02	Total/NA	Solid	SW5035A	
890-260-4	BH02 A	Total/NA	Solid	SW5035A	
7722919-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7722919-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7722919-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
690554-005 S	Matrix Spike	Total/NA	SOIL	SW5035A	
690554-005 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153290_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-1	BH01	Total/NA	Solid	SW8015P	
7723045-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723045-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723045-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691112-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691112-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153292_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-2	BH01 A	Total/NA	Solid	SW8015P	

QC Association Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Subcontract (Continued)

Prep Batch: 3153292_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-260-3	BH02	Total/NA	Solid	SW8015P	
890-260-4	BH02 A	Total/NA	Solid	SW8015P	
7723047-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723047-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723047-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691123-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691123-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Lab Chronicle

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Client Sample ID: BH01
Date Collected: 03/03/21 11:00
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 08:12	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/08/21 08:24	SPC	XM
Total/NA	Prep	SW8015P		1	3153290_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153290	03/11/21 06:15	ARM	XM

Client Sample ID: BH01 A
Date Collected: 03/03/21 11:15
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 08:33	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/08/21 08:31	SPC	XM
Total/NA	Prep	SW8015P		1	3153292_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153292	03/11/21 05:34	ARM	XM

Client Sample ID: BH02
Date Collected: 03/03/21 11:30
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 08:53	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/07/21 20:46	SPC	XM
Total/NA	Prep	SW8015P		1	3153292_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153292	03/11/21 05:55	ARM	XM

Client Sample ID: BH02 A
Date Collected: 03/03/21 11:45
Date Received: 03/04/21 15:30

Lab Sample ID: 890-260-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153059_P	03/09/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1	3153059	03/10/21 09:14	KTL	XM
Total/NA	Prep	E300P		1	3152792_P	03/07/21 16:10		XM
Total/NA	Analysis	CHLORIDE E300		1	3152792	03/08/21 08:38	SPC	XM
Total/NA	Prep	SW8015P		1	3153292_P	03/10/21 17:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153292	03/11/21 06:15	ARM	XM

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

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

Method Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Method	Method Description	Protocol	Laboratory
Subcontract	BTEX 8021	None	XM
Subcontract	CHLORIDE E300	None	XM
Subcontract	TPH 8015_NM_MOD	None	XM

Protocol References:

None = None

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: James Ranch Unit DI 1A

Job ID: 890-260-1
SDG: TE012921002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-260-1	BH01	Solid	03/03/21 11:00	03/04/21 15:30	
890-260-2	BH01 A	Solid	03/03/21 11:15	03/04/21 15:30	
890-260-3	BH02	Solid	03/03/21 11:30	03/04/21 15:30	
890-260-4	BH02 A	Solid	03/03/21 11:45	03/04/21 15:30	

Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
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)
www.xenco.com

Work Order No: _____

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(303) 887-2946	Email:	Spencer.Lo@wsp.com,Korey.Kennedy@wsp.com,Dan.Moir@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	James Ranch Unit DI 1A	Turn Around	
Project Number:	TE012921002	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.2/1.0	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH01	S	3/3/2021	1100	2'	1	X	X	X
BH01A	S	3/3/2021	1115	4'	1	X	X	X
BH02	S	3/3/2021	1130	2'	1	X	X	X
BH02A	S	3/3/2021	1145	4'	1	X	X	X

890-260 Chain of Custody

Work Order Notes

Cost Center: 1082151001
AFE: DD.2017.02051.CAP.CMP.01

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl 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 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Cruz Clifton	3.4.21 1530			
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-260-1
SDG Number: TE012921002

Login Number: 260
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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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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
District IV
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 24919

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 24919
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/11/2021