2024 ANNUAL GROUNDWATER REPORT – Johnston Federal #4

San Juan County, New Mexico

NMOCD Incident No.
nAUTOfAB000305

Prepared for:

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ABBREVIATIONS

µg/L	micrograms per liter
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
cy	cubic yard
Envirotech	Envirotech, Inc.
EPA	United States Environmental Protection Agency
Eurofins	Eurofins Environment Testing Southeast, LLC
EPCGP	El Paso CGP Company
HydraSleeve	HydraSleeve™
LNAPL	light non-aqueous phase liquid
MDPE	mobile dual-phase extraction
NMOCD	New Mexico Oil Conservation Division
NMOSE	New Mexico Office of the State Engineer
NMWQCC	New Mexico Water Quality Control Commission
Sierra	Sierra Oilfield Services Inc.
SMA	Souder Miller & Associates
Stantec	Stantec Consulting Services Inc.
SVE	Soil Vapor Extraction
Taft	Taft Electric Inc.
Thermox	thermal oxidizer
VFD	variable frequency drive

1.0 INTRODUCTION

This 2024 Annual Groundwater Report has been prepared on behalf of El Paso CGP Company (EPCGP), a subsidiary of Kinder Morgan, Inc., by Stantec Consulting Services Inc. (Stantec). This report summarizes groundwater sampling and associated activities completed in 2024 at the Johnston Federal #4 site (Site; Meter Code 70194), located at Unit N, Section 27, Township 31 North, Range 9 West, in San Juan County, New Mexico. The location of the Site is Latitude 36.862800, Longitude -107.771983, depicted in Figure 1. The Site has been assigned Incident Number nAUTOfAB000305 by the New Mexico Oil Conservation Division (NMOCD).

2.0 SITE BACKGROUND

Environmental remediation activities at the Site are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the NMOCD in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into EPCGP's program methods. Currently, the Site is operated by Hilcorp Energy and is active.

The Site is located on Private/Fee land. An initial site assessment was completed in August 1994, and an excavation of 60 cubic yards (cy) to a depth of approximately 12 feet below ground surface (bgs) was completed in September 1994. Monitoring wells were installed in 1995 (MW-1, MW-2, MW-3), 2006 (MW-4, TMW-5), 2013 (MW-6 through MW-12), 2014 (MW-13 through MW-20), 2020 (MW-21 through MW-23) and 2022 (MW-24 and MW-25). Remediation wells were installed in 2018 (TW-1, TW-2, and SVE-1), 2020 (AS-3 through AS-22 and SVE-2 through SVE-8), and 2022 (SVE-12 through SVE-14). Temporary monitoring well TMW-5 was plugged and abandoned in 2014. A detailed Site history is presented in Appendix A.

A Site Plan map depicting the locations of monitoring wells, soil borings, and current and historical site features is provided as Figure 2. Historically, light non-aqueous phase liquid (LNAPL) has been periodically encountered and recovered at the Site. Mobile dual-phase extraction (MDPE) events to evaluate enhancement of LNAPL recovery were conducted in 2016 and 2018. LNAPL is present at the Site, and manual recovery has been performed periodically since 2020. An LNAPL skimmer system was installed at MW-21 in 2022 to enhance LNAPL recovery at this location. The skimmer was removed from the Site on July 19, 2024, after LNAPL recharge in MW-21 became negligible.

Currently, groundwater sampling of key monitoring wells not containing LNAPL is conducted on a semi-annual basis, and biennially from all EPCGP monitoring wells not containing LNAPL.

3.0 SVE SYSTEM INSTALLATION ACTIVITIES

Stantec provided field work notifications via email to the NMOCD on October 4, 2024, prior to initiating SVE installation activities at the Site. Copies of the 2024 NMOCD notifications are provided in Appendix B. Beginning October 8 through October 11, 2024, Stantec oversaw the installation of additional SVE infrastructure at the Site. Following preparation of an equipment pad, a thermal oxidizer (thermox) SVE system was delivered to the site placed inside secondary containment on the equipment pad for operation with the SVE wells previously installed at the Site. A natural gas generator was placed to provide electricity for the SVE components, using wellhead gas as a fuel source. Gas conveyance lines, metering, a CONEX for equipment storage, fencing, liquid containment and storage tanks, and security cameras were also installed. During on-site inspection of generator, issues were noted with the generator that necessitated its removal from the Site.

Offsite diagnostics on the generator revealed that a total engine block replacement was necessary, which was completed by the manufacturer. From December 10 through December 13, 2024, Stantec oversaw the reinstallation and hookup of the natural gas generator, replacement of privacy fencing, and the installation of heat trace tape to protect condensate lines from freezing. During initial testing of the thermox equipment, the SVE vacuum blower would not remain running after it was started. Stantec performed troubleshooting on the Variable Frequency Drive (VFD) associated with the blower in coordination with the manufacturer of the thermox skid, the manufacturer of the VFD, and on-site technical support. Further electric load testing is planned for 2025 to troubleshoot the issue and startup of the SVE system will occur after the problem is resolved, either by load balancing measures or replacement with an alternative generator. An updated survey of the site was completed by a professional surveyor in December 2024. Daily Field Reports are included for the activities completed in October and December 2024 in Appendix C. A representative photographic log depicting 2024 system installation activities is presented in Appendix D.

4.0 GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the NMOCD on May 7, 2024, and October 28, 2024, prior to initiating groundwater sampling activities at the Site (Appendix B).

Groundwater monitoring and sampling was completed on May 15 and November 9, 2024. Water levels were gauged at MW-1 through MW-25 during the May 2024 and November 2024 sampling events. During the May sampling event, monitoring wells MW-6, MW-9, MW-13, MW-15 through MW-20, and MW-23 through MW-25 were sampled. During the November sampling event, monitoring wells MW-1 through MW-4, MW-6, MW-9, MW-10, MW-12 through MW-20, and MW-22 through MW-25 were sampled.

Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event using a suspension tether and stainless-steel weights. The HydraSleeves were

positioned to collect a sample from the screened interval by setting the bottom of the sleeve to sample the interval expected to be the most transmissive within the saturated screen interval. If an apparent transmissive unit was not evident, the HydraSleeve was set approximately 0.5 foot above the bottom of the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins Environment Testing Southeast, LLC, (Eurofins) in Pensacola, Florida, where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8260. One laboratory-supplied trip blank and at least one blind field duplicate were also collected during each groundwater sampling event.

The unused sample water was combined in a waste container and transported to the Envirotech, Inc. (Envirotech) land farm in Bloomfield, New Mexico for disposal. Waste disposal documentation is included in Appendix E.

5.0 LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities beginning in the second calendar quarter of 2020. Documentation of NMOCD notification of site LNAPL recovery activities in 2024 is provided in Appendix B.

LNAPL recovery data is summarized in Table 1. LNAPL was observed and recovered in monitoring wells MW-7, MW-8, MW-11, and MW-21 during all four site visits in 2024.

During the groundwater sampling site visits in May and November, recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March and August site visit was disposed at Envirotech (Appendix E).

The LNAPL skimmer installed in monitoring well MW-21 in 2022 was removed as described previously due to insufficient LNAPL recharge for operation.

6.0 GROUNDWATER RESULTS

Historical groundwater analytical results and well gauging data are summarized in Tables 2 and 3, respectively. Groundwater analytical data maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2024 groundwater sampling and gauging events. The groundwater analytical lab reports are included as Appendix F. The following summarizes the groundwater monitoring and sampling conducted during this reporting period:

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the east-southeast during 2024 (see Figures 4 and 6).

- LNAPL was observed in MW-7, MW-8, MW-11, and MW-21 during the May 2024 and

November 2024 sampling events; therefore, no groundwater samples were collected at these locations.

- At least one groundwater sample collected in 2024 from MW-1, MW-3, MW-9, MW-10, MW-15, MW-16, MW-17, MW-18, MW-19, and MW-20 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Concentrations of benzene in the remaining samples collected from Site monitoring wells in 2024 were either below the NMWQCC standard or were not detected.

- The groundwater sample collected in November 2024 from MW-1 exceeded the NMWQCC standard (750 µg/L) for toluene in groundwater. Concentrations of toluene in the remaining samples collected from Site monitoring wells in 2024 were either below the NMWQCC standard or were not detected.

- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the Site monitoring wells sampled in 2024.

- At least one groundwater sample collected in 2024 from MW-1 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Concentrations of total xylenes in the remaining samples collected from Site monitoring wells in 2024 were either below the NMWQCC standard or were not detected.

- A field duplicate was collected from monitoring well MW-24 in May 2024 and from MW-1 and MW-18 in November 2024. There were no significant differences between the primary and duplicate samples in 2024.

- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2024 groundwater monitoring events.

7.0 NMOSE PERMITTING

Pursuant to NMOCD correspondence dated February 26, 2025, copies of New Mexico Office of the State Engineer (NMOSE) permits for the Site monitoring and remediation wells are included as Appendix G. A copy of the NMOSE pollution recovery permit for the SVE system is included as Appendix H.

8.0 PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will continue to be conducted on a semi-annual basis, from a selection of site monitoring wells which provides an adequate representation of site conditions. Groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. Sampling of the 24 site monitoring wells is to be conducted

in the fourth calendar quarter of 2025.

Troubleshooting of the SVE system is planned for early 2025, and startup, shakedown, and operation and maintenance activities will be conducted in accordance with the Remedial Action Work Plan (RAP) submitted in November 2023, and subsequently approved. Manual recovery of LNAPL will continue on a quarterly basis from monitoring wells where measurable LNAPL is present.

The activities conducted in 2025, and their results, will be summarized in the 2025 Annual Report, to be completed for submittal by April 1, 2026.

TABLES

TABLE 1

LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Johnston Federal #4

Well ID - MW-1	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/16/2016	51.61	51.68	0.07	0.01	<0.01	manual
5/25/2016	51.58	51.61	0.03	0	0	No Recovery
10/12/2016	51.71	51.73	0.02	<0.01	<0.01	manual
12/13/2016	51.80	51.81	0.01	<0.01	<0.01	manual
6/9/2017	51.76	51.78	0.02	<0.01	<0.01	manual
7/15/2017	51.85	51.87	0.02	15.6	790	MDPE*
11/12/2017	51.85	51.86	0.01	<0.01	<0.01	manual
5/16/2018	51.83	51.97	0.14	0.02	NR	manual
7/15/2018	51.64	51.75	0.11	19.7	285	MDPE*
5/22/2019	51.85	51.96	0.11	<0.01	NR	manual
11/12/2019	51.93	51.95	0.02	0.01	<0.01	manual
5/17/2020	52.03	52.05	0.02	<0.01	<0.01	manual
8/19/2020	52.10	52.11	0.01	<0.01	0.2	manual
11/13/2020	52.14	52.15	0.01	<0.01	0.1	manual
5/18/2021	52.23	52.24	0.01	<0.01	0.1	manual
8/22/2021	ND	52.23	0.00	0.00	0.05	manual
11/5/2022	52.05	52.06	0.01	<0.01	0.09	manual
			Total:	35.3	1076	

Well ID - MW-3	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/16/2016	51.20	51.90	0.70	0.83	<0.01	manual
5/25/2016	51.26	51.61	0.35	0.20	<0.01	manual
6/20/2016	NM	NM	0.22	0.20	0.01	manual
7/22/2016	NM	NM	0.22	0.11	0.01	manual
11/15/2016	51.70	51.71	0.01	<0.01	<0.01	manual
11/30/2016	51.58	51.79	0.21	5.9	168	MDPE*
6/9/2017	51.50	51.52	0.02	<0.01	<0.01	manual
7/15/2017	ND	51.77	ND	7.1	760	MDPE*
11/12/2017	51.54	51.55	0.01	<0.01	<0.01	manual
5/16/2018	51.47	52.05	0.58	0.22	NR	manual
7/15/2018	ND	51.77	ND	15.5	709	MDPE*
5/22/2019	51.79	52.02	0.23	0.03	NR	manual
11/12/2019	51.84	51.89	0.05	0.07	0.18	manual
5/17/2020	51.96	52.12	0.16	0.11	0.66	manual
8/19/2020	52.04	52.14	0.10	0.03	1.02	manual
11/13/2020	52.10	52.12	0.02	<0.01	0.1	manual
3/18/2021	52.19	52.26	0.07	0.03	0.48	manual
5/18/2021	52.21	52.25	0.04	0.02	0.13	manual
8/22/2021	52.23	52.27	0.04	<0.01	0.21	manual
11/15/2021	52.27	52.32	0.05	<0.01	0.53	manual

TABLE 1

LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Johnston Federal #4

Well ID - MW-3 (cont.)	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
5/20/2022	52.29	52.33	0.04	<0.01	0.12	manual
7/30/2022	52.32	52.34	0.02	<0.01	0.13	manual
11/5/2022	52.04	52.05	0.01	<0.01	0.09	manual
			Total:	30.4	1641	

Well ID - MW-7	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
5/16/2018	50.98	51.86	0.88	0.33	NR	manual
7/15/2018	51.03	51.82	0.79	16.0	310	MDPE*
10/26/2018	51.13	51.14	0.01	<0.01	0.13	manual
5/22/2019	51.29	51.82	0.53	0.09	NR	manual
11/12/2019	51.28	52.08	0.80	0.26	0.29	manual
5/15/2020	51.33	52.21	0.88	0.39	0.48	manual
8/19/2020	51.42	52.30	0.88	0.31	1.2	manual
11/13/2020	51.43	52.34	0.91	0.28	1.1	manual
3/18/2021	51.20	51.53	0.33	0.23	0.55	manual
5/18/2021	51.52	52.41	0.89	0.25	0.17	manual
8/22/2021	51.72	52.03	0.31	0.03	0.5	manual
11/15/2021	51.80	51.94	0.14	<0.01	0.85	manual
3/23/2022	51.86	51.92	0.06	<0.01	0.11	manual
5/20/2022	51.83	51.88	0.05	<0.01	0.05	manual
7/30/2022	51.87	51.90	0.03	<0.01	0.03	manual
11/5/2022	51.59	51.60	0.01	<0.01	0.14	manual
3/28/2023	51.28	51.79	0.51	0.23	1.25	manual
5/19/2023	51.30	51.61	0.31	0.05	0.23	manual
8/30/2023	51.22	51.49	0.27	0.09	2.19	manual
11/11/2023	51.31	51.34	0.03	<0.01	0.21	manual
3/27/2024	51.33	51.40	0.07	0.01	0.37	manual
5/15/2024	51.32	51.44	0.12	0.02	0.17	manual
8/30/2024	50.68	51.43	0.75	0.07	0.31	manual
11/9/2024	51.50	51.65	0.15	0.02	0.5	manual
			Total:	18.7	321	

TABLE 1

LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Johnston Federal #4

Well ID - MW-8	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/16/2016	50.68	51.44	0.76	0.55	<0.01	manual
4/20/2016	50.71	51.42	0.71	0.33	0.01	manual
5/25/2016	50.68	51.43	0.75	0.21	<0.01	manual
6/20/2016	NM	NM	0.25	0.23	0.01	manual
7/22/2016	NM	NM	0.41	0.29	0.01	manual
8/17/2016	NM	NM	0.65	0.27	<0.01	manual
10/12/2016	50.81	51.52	0.71	0.32	0.03	manual
11/15/2016	51.00	51.60	0.60	0.33	0.02	manual
12/13/2016	NM	NM	0.01	<0.01	<0.01	manual
6/9/2017	51.01	51.11	0.10	<0.01	<0.01	manual
7/15/2017	50.68	52.28	1.60	46.5	2596	MDPE*
7/18/2017	51.15	51.71	0.56	44.4	3231	MDPE*
11/12/2017	50.78	50.82	0.04	<0.01	<0.01	manual
5/16/2018	50.90	51.83	0.93	0.53	NR	manual
7/15/2018	51.13	52.51	1.38	39.0	1521	MDPE*
5/22/2019	51.09	52.12	1.03	0.36	NR	manual
11/12/2019	51.15	52.74	1.59	0.48	0.26	manual
5/17/2020	51.23	52.41	1.18	0.82	0.52	manual
8/19/2020	51.30	52.53	1.23	0.77	1.23	manual
11/13/2020	51.36	52.53	1.17	0.69	1.1	manual
3/18/2021	51.20	51.80	0.60	0.42	0.16	manual
5/18/2021	51.60	51.98	0.38	0.04	0.06	manual
8/22/2021	51.55	52.39	0.84	0.35	0.24	manual
11/15/2021	51.59	52.44	0.85	0.43	0.53	manual
3/23/2022	51.60	52.59	0.99	0.40	0.15	manual
5/20/2022	51.61	52.42	0.81	0.24	0.07	manual
7/30/2022	51.70	52.28	0.58	0.13	0.35	manual
11/5/2022	51.51	51.78	0.27	0.08	0.51	manual
3/28/2023	51.34	51.44	0.10	0.03	0.53	manual
5/19/2023	51.31	51.42	0.11	0.03	0.08	manual
8/30/2023	51.23	51.37	0.14	0.02	1.27	manual
11/11/2023	51.26	51.37	0.11	0.01	0.10	manual
3/27/2024	51.29	51.36	0.07	0.02	0.04	manual
5/15/2024	51.31	51.38	0.07	0.01	0.08	manual
8/30/2024	51.41	51.50	0.09	0.02	0.15	manual
8/30/2024	51.48	51.51	0.03	<0.01	0.29	manual
			Total:	138.3	7356	

TABLE 1

LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Johnston Federal #4

Well ID - MW-11	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/16/2016	51.51	51.80	0.29	0.45	<0.01	manual
5/25/2016	51.26	51.61	0.35	0.08	0.13	manual
6/20/2016	NM	NM	0.02	0.07	<0.01	manual
7/22/2016	NM	NM	0.22	0.16	0.01	manual
10/12/2016	51.68	51.80	0.12	0.03	<0.01	manual
11/15/2016	51.80	51.81	0.01	<0.01	<0.01	manual
12/13/2016	51.80	51.83	0.03	<0.01	<0.01	manual
6/9/2017	51.22	53.24	2.02	4.0	<0.01	manual
7/16/2017	51.29	53.13	1.84	29.2	464	MDPE*
11/12/2017	51.52	51.54	0.02	<0.01	<0.01	manual
5/16/2018	51.70	52.04	0.34	0.55	NR	manual
7/15/2018	51.82	52.52	0.70	64.3	350	MDPE*
5/22/2019	51.89	52.23	0.34	<0.01	NR	manual
11/12/2019	51.94	52.53	0.59	0.34	0.32	manual
8/19/2020	52.27	52.35	0.08	0.06	0.62	manual
11/13/2020	52.32	52.33	0.01	<0.01	0.10	manual
8/22/2021	52.45	52.45	<0.01	<0.01	0.03	manual
3/27/2024	51.96	52.04	0.08	0.01	0.11	manual
5/15/2024	51.94	52.19	0.25	0.12	0.31	manual
8/30/2024	52.00	52.46	0.46	0.24	0.38	manual
11/9/2024	52.16	52.21	0.05	0.03	0.37	manual
			Total:	99.6	816	

Well ID - MW-21	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
11/13/2020	50.10	50.55	0.45	0.59	0.04	manual
3/18/2021	50.18	50.50	0.32	0.41	0.33	manual
5/18/2021	50.21	51.16	0.95	0.95	0.35	manual
8/22/2021	50.25	51.25	1.00	0.89	0.69	manual
11/15/2021	50.24	51.38	1.14	1.11	1.01	manual
3/23/2022	50.28	51.42	1.14	1.21	0.46	manual
5/20/2022	50.32	51.17	0.85	0.71	0.21	manual
7/31/2022	50.36	51.16	0.80	0.50	0.15	manual
8/1/2022	50.44	50.94	0.50	0.15	0.07	manual
8/27/2022	50.50	50.88	0.38	1.50	0.00	Solar Skimmer**
10/14/2022	50.39	50.42	0.03	<0.01	0.00	Solar Skimmer**
2/16/2023	50.15	50.35	0.20	<0.01	0.00	Solar Skimmer**
3/28/2023	50.09	50.11	0.02	1.83	0.00	Solar Skimmer**
4/20/2023	ND	50.10	NC	0.84	0.00	Solar Skimmer**
5/19/2023	50.10	50.13	0.03	1.25	0.00	Solar Skimmer**

TABLE 1

LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

Johnston Federal #4

Well ID - MW-21 (Cont.)	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
6/28/2023	50.04	50.05	0.01	0.41	0.00	Solar Skimmer**
7/26/2023	50.03	50.06	0.03	0.84	0.00	Solar Skimmer**
8/30/2023	50.00	50.03	0.03	NM	0.00	Solar Skimmer**
11/11/2023	50.05	50.08	0.03	1.66	0.00	Solar Skimmer**
11/29/2023	NM	NM	NC	NM	0.00	Solar Skimmer**
5/15/2024	50.08	50.09	0.01	<0.01	0.13	manual
8/30/2024	51.14	51.21	0.07	<0.01	0.13	manual
11/9/2024	50.21	50.29	0.08	0.02	0.24	manual
			Total:	14.9	3.81	

Well ID - MW-22	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
5/17/2020	49.57	49.58	0.01	<0.01	0.03	manual
8/19/2020	49.55	49.94	0.39	0.03	0.41	manual
11/13/2020	49.79	49.95	0.16	0.05	0.03	manual
3/18/2021	49.80	50.00	0.20	0.05	0.29	manual
5/18/2021	49.65	50.09	0.44	0.04	0.04	manual
8/22/2021	49.72	50.10	0.38	0.05	0.48	manual
3/23/2022	49.82	50.08	0.26	0.03	0.19	manual
7/31/2022	49.87	49.92	0.05	<0.01	0.05	manual
8/1/2022	49.87	49.93	0.06	0.00	0.00	manual
11/5/2022	49.60	49.61	0.01	<0.01	0.13	manual
8/30/2023	49.31	49.32	0.01	<0.01	0.12	manual

Notes:

NM = Not Measured. Measured thickness was obtained by measuring the thickness within a bailer.

ND = Not Detected.

NC = Not Calculated.

* = Mobile Dual Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.

** = Skimmer LNAPL volume includes entrained water collected during operation.

NR = Data not recorded

gal = gallons

LNAPL = Light non-aqueous phase liquid

LNAPL recovery data for 2015 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	08/08/95	590	2040	137	1764
MW-1	01/04/96	7380	20900	1480	14600
MW-1	12/17/96	762	1930	107	1270
MW-1	03/06/97	483	1110	66.1	678
MW-1	06/22/01	NS	NS	NS	NS
MW-1	09/04/01	NS	NS	NS	NS
MW-1	03/04/02	NS	NS	NS	NS
MW-1	06/03/02	NS	NS	NS	NS
MW-1	09/10/02	NS	NS	NS	NS
MW-1	12/12/02	NS	NS	NS	NS
MW-1	03/14/03	NS	NS	NS	NS
MW-1	06/18/03	NS	NS	NS	NS
MW-1	09/16/03	NS	NS	NS	NS
MW-1	12/17/03	NS	NS	NS	NS
MW-1	03/16/04	NS	NS	NS	NS
MW-1	06/22/04	NS	NS	NS	NS
MW-1	09/22/04	NS	NS	NS	NS
MW-1	12/21/04	NS	NS	NS	NS
MW-1	03/23/05	NS	NS	NS	NS
MW-1	06/23/05	NS	NS	NS	NS
MW-1	09/20/05	NS	NS	NS	NS
MW-1	12/14/05	NS	NS	NS	NS
MW-1	12/15/05	NS	NS	NS	NS
MW-1	03/27/06	NS	NS	NS	NS
MW-1	06/07/06	NS	NS	NS	NS
MW-1	09/25/06	NS	NS	NS	NS
MW-1	12/07/06	NS	NS	NS	NS
MW-1	03/28/07	NS	NS	NS	NS
MW-1	06/18/07	NS	NS	NS	NS
MW-1	09/17/07	NS	NS	NS	NS
MW-1	12/17/07	NS	NS	NS	NS
MW-1	03/10/08	NS	NS	NS	NS
MW-1	06/17/08	NS	NS	NS	NS
MW-1	09/10/08	NS	NS	NS	NS
MW-1	12/02/08	NS	NS	NS	NS
MW-1	03/03/09	NS	NS	NS	NS
MW-1	06/09/09	1630	3000	268	3880
MW-1	08/28/09	NS	NS	NS	NS
MW-1	11/04/09	NS	NS	NS	NS
MW-1	02/11/10	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	06/07/10	1630	3130	213	3840
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/02/10	NS	NS	NS	NS
MW-1	02/07/11	NS	NS	NS	NS
MW-1	05/10/11	1000	1710	206	2400
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/01/11	NS	NS	NS	NS
MW-1	02/21/12	NS	NS	NS	NS
MW-1	05/14/12	1200	2170	152	2580
MW-1	06/09/13	3900	14000	610	10000
MW-1	09/09/13	NS	NS	NS	NS
MW-1	12/12/13	NS	NS	NS	NS
MW-1	04/02/14	NS	NS	NS	NS
MW-1	10/23/14	NS	NS	NS	NS
MW-1	05/29/15	1600	4000	220	2400
MW-1	11/23/15	NS	NS	NS	NS
MW-1	04/16/16	NS	NS	NS	NS
MW-1	10/12/16	NS	NS	NS	NS
MW-1	06/09/17	NS	NS	NS	NS
MW-1	11/12/17	NS	NS	NS	NS
MW-1	05/16/18	NS	NS	NS	NS
MW-1	07/15/18	NS	NS	NS	NS
MW-1	10/26/18	NS	NS	NS	NS
MW-1	05/22/19	NS	NS	NS	NS
MW-1	11/12/19	NS	NS	NS	NS
MW-1	05/17/20	NS	NS	NS	NS
MW-1	11/13/20	NS	NS	NS	NS
MW-1	05/18/21	NS	NS	NS	NS
MW-1	11/15/21	NS	NS	NS	NS
MW-1	05/20/22	NS	NS	NS	NS
MW-1	11/05/22	NS	NS	NS	NS
MW-1	05/19/23	NS	NS	NS	NS
MW-1	11/11/23	420000	5700	140	3700
MW-1	05/15/24	NS	NS	NS	NS
MW-1	11/09/24	5200	5200	140	5600
DUP-02(MW-1)*	11/09/24	3900	3700	110	3800
MW-2	01/04/96	1104	5107	479	4640
MW-2	12/17/96	5900	8970	197	4670

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	03/06/97	4500	6480	236	4920
MW-2	06/22/01	2800	180	41	140
MW-2	09/04/01	NS	NS	NS	NS
MW-2	06/03/02	370	11	24	18
MW-2	09/10/02	NS	NS	NS	NS
MW-2	12/12/02	NS	NS	NS	NS
MW-2	06/18/03	186	<5	34.9	16.8
MW-2	09/16/03	NS	NS	NS	NS
MW-2	12/17/03	NS	NS	NS	NS
MW-2	03/16/04	NS	NS	NS	NS
MW-2	06/22/04	88.9	24	32.9	15.2
MW-2	09/22/04	NS	NS	NS	NS
MW-2	12/21/04	NS	NS	NS	NS
MW-2	03/23/05	NS	NS	NS	NS
MW-2	06/23/05	283	9.4	27.7	64.5
MW-2	09/20/05	NS	NS	NS	NS
MW-2	12/14/05	NS	NS	NS	NS
MW-2	03/27/06	NS	NS	NS	NS
MW-2	06/07/06	92.1	18.4	4.4	5.9
MW-2	09/25/06	NS	NS	NS	NS
MW-2	12/07/06	NS	NS	NS	NS
MW-2	03/28/07	NS	NS	NS	NS
MW-2	06/19/07	83	<1	7.3	7.2
MW-2	09/17/07	NS	NS	NS	NS
MW-2	12/17/07	NS	NS	NS	NS
MW-2	03/10/08	NS	NS	NS	NS
MW-2	06/17/08	201	4.2	16.6	17.9
MW-2	09/10/08	NS	NS	NS	NS
MW-2	12/02/08	NS	NS	NS	NS
MW-2	03/03/09	NS	NS	NS	NS
MW-2	06/04/09	NS	NS	NS	NS
MW-2	06/09/09	18.5	0.82 J	2.8	6.9
MW-2	08/28/09	NS	NS	NS	NS
MW-2	11/04/09	NS	NS	NS	NS
MW-2	02/11/10	NS	NS	NS	NS
MW-2	06/07/10	5.6	0.99 J	<2	<6
MW-2	09/24/10	NS	NS	NS	NS
MW-2	11/02/10	NS	NS	NS	NS
MW-2	02/07/11	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	05/10/11	5.3	1.2	0.046 J	J2.3
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/01/11	NS	NS	NS	NS
MW-2	02/21/12	NS	NS	NS	NS
MW-2	05/14/12	7.2	1.4	0.56 J	2.7 J
MW-2	06/09/13	1.8	<0.30	<0.20	<0.23
MW-2	09/09/13	1.7	<0.30	<0.20	<0.23
MW-2	12/12/13	1.5 J	<0.38	<0.20	0.80 J
MW-2	04/02/14	540	36	230	1500
MW-2	10/23/14	0.74 J	<0.70	<0.50	<1.6
MW-2	05/29/15	0.63 J	<5.0	<1.0	2.6 J
MW-2	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/16/16	NS	NS	NS	NS
MW-2	10/12/16	NS	NS	NS	NS
MW-2	06/09/17	NS	NS	NS	NS
MW-2	11/12/17	NS	NS	NS	NS
MW-2	05/16/18	NS	NS	NS	NS
MW-2	10/26/18	2.5	<1.0	<1.0	<10
MW-2	05/22/19	NS	NS	NS	NS
MW-2	11/12/19	NS	NS	NS	NS
MW-2	05/17/20	NS	NS	NS	NS
MW-2	11/13/20	42	1.3	<1.0	<10
MW-2	05/18/21	NS	NS	NS	NS
MW-2	11/15/21	NS	NS	NS	NS
MW-2	05/20/22	NS	NS	NS	NS
MW-2	11/05/22	<1.0	<1.0	<1.0	<10
DUP-01(MW-2)*	11/05/22	<1.0	<1.0	<1.0	<10
MW-2	05/19/23	NS	NS	NS	NS
MW-2	11/11/23	<1.0	<1.0	<1.0	<10
MW-2	05/15/24	NS	NS	NS	NS
MW-2	11/09/24	<1.0	<1.0	<1.0	<10
MW-3	03/19/96	3660	5410	436	3730
MW-3	12/17/96	3910	8210	530	5020
MW-3	03/06/97	6670	12700	759	7020
MW-3	06/22/01	NS	NS	NS	NS
MW-3	09/04/01	NS	NS	NS	NS
MW-3	03/04/02	NS	NS	NS	NS
MW-3	06/03/02	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	09/10/02	NS	NS	NS	NS
MW-3	12/12/02	NS	NS	NS	NS
MW-3	03/14/03	NS	NS	NS	NS
MW-3	06/18/03	NS	NS	NS	NS
MW-3	09/16/03	NS	NS	NS	NS
MW-3	12/17/03	NS	NS	NS	NS
MW-3	03/16/04	NS	NS	NS	NS
MW-3	06/22/04	NS	NS	NS	NS
MW-3	09/22/04	NS	NS	NS	NS
MW-3	12/21/04	NS	NS	NS	NS
MW-3	03/23/05	NS	NS	NS	NS
MW-3	06/23/05	NS	NS	NS	NS
MW-3	09/20/05	NS	NS	NS	NS
MW-3	12/14/05	NS	NS	NS	NS
MW-3	12/15/05	NS	NS	NS	NS
MW-3	03/27/06	NS	NS	NS	NS
MW-3	06/07/06	NS	NS	NS	NS
MW-3	09/25/06	NS	NS	NS	NS
MW-3	12/07/06	NS	NS	NS	NS
MW-3	03/28/07	NS	NS	NS	NS
MW-3	06/18/07	NS	NS	NS	NS
MW-3	09/17/07	NS	NS	NS	NS
MW-3	12/17/07	NS	NS	NS	NS
MW-3	03/10/08	NS	NS	NS	NS
MW-3	06/17/08	NS	NS	NS	NS
MW-3	09/10/08	NS	NS	NS	NS
MW-3	12/02/08	NS	NS	NS	NS
MW-3	03/03/09	NS	NS	NS	NS
MW-3	06/09/09	6100	8700	627	6630
MW-3	08/28/09	NS	NS	NS	NS
MW-3	11/04/09	NS	NS	NS	NS
MW-3	02/11/10	NS	NS	NS	NS
MW-3	06/07/10	7440	10800	578	7170
MW-3	09/24/10	NS	NS	NS	NS
MW-3	11/02/10	NS	NS	NS	NS
MW-3	02/07/11	NS	NS	NS	NS
MW-3	05/10/11	4180	4990	421	3780
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/01/11	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	02/21/12	NS	NS	NS	NS
MW-3	05/14/12	8100	15800	1040	11100
MW-3	06/09/13	5100	12000	870	11000
MW-3	09/09/13	NS	NS	NS	NS
MW-3	12/12/13	NS	NS	NS	NS
MW-3	04/02/14	NS	NS	NS	NS
MW-3	10/23/14	NS	NS	NS	NS
MW-3	05/29/15	NS	NS	NS	NS
MW-3	11/23/15	NS	NS	NS	NS
MW-3	04/16/16	NS	NS	NS	NS
MW-3	10/12/16	NS	NS	NS	NS
MW-3	06/09/17	NS	NS	NS	NS
MW-3	11/12/17	NS	NS	NS	NS
MW-3	05/16/18	NS	NS	NS	NS
MW-3	07/15/18	NS	NS	NS	NS
MW-3	10/26/18	NS	NS	NS	NS
MW-3	05/22/19	NS	NS	NS	NS
MW-3	11/12/19	NS	NS	NS	NS
MW-3	05/17/20	NS	NS	NS	NS
MW-3	08/19/20	NS	NS	NS	NS
MW-3	11/13/20	NS	NS	NS	NS
MW-3	05/18/21	NS	NS	NS	NS
MW-3	11/15/21	NS	NS	NS	NS
MW-3	05/20/22	NS	NS	NS	NS
MW-3	11/05/22	NS	NS	NS	NS
MW-3	05/19/23	NS	NS	NS	NS
MW-3	11/11/23	370	<5.0	<5.0	<50
MW-3	05/15/24	NS	NS	NS	NS
MW-3	11/09/24	82	<1.0	1.3	10
MW-4	12/07/06	NS	NS	NS	NS
MW-4	03/28/07	NS	NS	NS	NS
MW-4	06/19/07	<1	<1	<1	<2
MW-4	09/17/07	NS	NS	NS	NS
MW-4	12/17/07	NS	NS	NS	NS
MW-4	03/10/08	NS	NS	NS	NS
MW-4	06/17/08	<1	<1	<1	<2
MW-4	09/10/08	NS	NS	NS	NS
MW-4	12/02/08	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	03/03/09	NS	NS	NS	NS
MW-4	06/09/09	<1	0.47 J	<1	0.77 J
MW-4	08/28/09	NS	NS	NS	NS
MW-4	11/04/09	NS	NS	NS	NS
MW-4	02/11/10	NS	NS	NS	NS
MW-4	06/07/10	<2	<2	<2	<6
MW-4	09/24/10	NS	NS	NS	NS
MW-4	11/02/10	NS	NS	NS	NS
MW-4	02/07/11	NS	NS	NS	NS
MW-4	05/10/11	<1	<1	<1	<3
MW-4	09/23/11	NS	NS	NS	NS
MW-4	11/01/11	NS	NS	NS	NS
MW-4	02/21/12	NS	NS	NS	NS
MW-4	05/14/12	0.41 J	0.36 J	0.33 J	<1
MW-4	06/09/13	<0.14	<0.30	<0.20	<0.23
MW-4	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-4	12/12/13	<0.20	<0.38	<0.20	<0.65
MW-4	04/02/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/29/15	<1.0	1.3 J	<1.0	<5.0
MW-4	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/16/16	NS	NS	NS	NS
MW-4	10/12/16	NS	NS	NS	NS
MW-4	06/09/17	NS	NS	NS	NS
MW-4	11/12/17	NS	NS	NS	NS
MW-4	05/16/18	NS	NS	NS	NS
MW-4	10/26/18	<1.0	<1.0	<1.0	<10
MW-4	05/22/19	NS	NS	NS	NS
MW-4	11/12/19	NS	NS	NS	NS
MW-4	05/17/20	NS	NS	NS	NS
MW-4	11/13/20	<1.0	<1.0	<1.0	<10
MW-4	05/18/21	NS	NS	NS	NS
MW-4	11/15/21	NS	NS	NS	NS
MW-4	05/20/22	NS	NS	NS	NS
MW-4	11/05/22	<1.0	<1.0	<1.0	<10
MW-4	05/19/23	NS	NS	NS	NS
MW-4	11/11/23	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	05/15/24	<1.0	<1.0	<1.0	<10
MW-4	11/09/24	<1.0	<1.0	<1.0	<10
TMW-5	12/07/06	NS	NS	NS	NS
TMW-5	03/28/07	NS	NS	NS	NS
TMW-5	06/19/07	2730	7.6	680	1160
TMW-5	09/17/07	NS	NS	NS	NS
TMW-5	12/17/07	NS	NS	NS	NS
TMW-5	03/10/08	NS	NS	NS	NS
TMW-5	06/17/08	3190	217	651	1220
TMW-5	09/10/08	NS	NS	NS	NS
TMW-5	12/02/08	NS	NS	NS	NS
TMW-5	03/03/09	NS	NS	NS	NS
TMW-5	06/09/09	1540	285	568	784
TMW-5	08/28/09	NS	NS	NS	NS
TMW-5	11/04/09	NS	NS	NS	NS
TMW-5	02/11/10	NS	NS	NS	NS
TMW-5	06/07/10	1970	207	591	746
TMW-5	09/24/10	NS	NS	NS	NS
TMW-5	11/02/10	NS	NS	NS	NS
TMW-5	02/07/11	NS	NS	NS	NS
TMW-5	05/10/11	3730	124	459	221
TMW-5	09/23/11	NS	NS	NS	NS
TMW-5	11/01/11	NS	NS	NS	NS
TMW-5	02/21/12	NS	NS	NS	NS
TMW-5	05/14/12	6180	52.6	614	243
TMW-5	06/09/13	6400	210	400	180
TMW-5	09/09/13	5600	26	470	100
TMW-5	12/12/13	3900	29 J	400	120
TMW-5	04/02/14	4900	770	510	630
TMW-5	Well abandoned 8/11/2014				
MW-6	12/12/13	NS	NS	NS	NS
MW-6	04/02/14	NS	NS	NS	NS
MW-6	10/23/14	230	3.3	420	120
MW-6	05/29/15	130	4.8 J	210	86
MW-6	11/23/15	330	21	260	84
MW-6	04/16/16	49	52	140	40
MW-6	10/12/16	77	25	17	<5.0
MW-6	06/09/17	36	<5.0	<1.0	15

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	11/12/17	66	20	9.5	83
MW-6	05/16/18	17	2.8	<1.0	<10
MW-6	10/26/18	110	1.9	4.0	26
MW-6	05/22/19	33	<1.0	<1.0	<10
MW-6	11/12/19	15	<1.0	<1.0	<2.0
DUP-01(MW-6)*	11/12/19	15	<1.0	<1.0	<2.0
MW-6	05/17/20	7.8	<1.0	<1.0	<10
MW-6	11/13/20	8.9	<1.0	<1.0	<10
MW-6	05/18/21	4.2	<0.41	<0.50	<1.6
MW-6	11/15/21	1.5	<1.0	<1.0	<10
DUP-01(MW-6)*	11/15/21	1.3	<1.0	<1.0	<10
MW-6	05/20/22	1.7	<1.0	<1.0	<10
MW-6	11/05/22	<1.0	<1.0	<1.0	<10
DUP-01(MW-6)*	11/05/22	<1.0	<1.0	<1.0	<10
MW-6	05/19/23	<1.0	<1.0	<1.0	<10
MW-6	11/11/23	<1.0	<1.0	<1.0	<10
DUP-02(MW-6)*	11/11/23	<1.0	<1.0	<1.0	<10
MW-6	05/15/24	<1.0	<1.0	<1.0	<10
MW-6	11/09/24	1.2	<1.0	<1.0	<10
MW-7	12/12/13	120	110	49 J	490
MW-7	04/02/14	3.5	3.6	4	<0.65
MW-7	10/23/14	4.6	<0.70	2.8	<1.6
MW-7	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-7	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-7	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-7	10/12/16	<1.0	<5.0	<1.0	<5.0
MW-7	06/09/17	<1.0	<5.0	<1.0	<5.0
MW-7	11/12/17	<1.0	<1.0	<1.0	<10
MW-7	05/16/18	NS	NS	NS	NS
MW-7	10/26/18	NS	NS	NS	NS
MW-7	05/22/19	NS	NS	NS	NS
MW-7	11/12/19	NS	NS	NS	NS
MW-7	05/17/20	NS	NS	NS	NS
MW-7	11/13/20	NS	NS	NS	NS
MW-7	05/18/21	NS	NS	NS	NS
MW-7	11/15/21	NS	NS	NS	NS
MW-7	05/20/22	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-7	11/05/22	NS	NS	NS	NS
MW-7	05/19/23	NS	NS	NS	NS
MW-7	11/11/23	NS	NS	NS	NS
MW-7	05/15/24	NS	NS	NS	NS
MW-7	11/09/24	NS	NS	NS	NS
MW-8	12/12/13	NS	NS	NS	NS
MW-8	04/02/14	NS	NS	NS	NS
MW-8	10/23/14	NS	NS	NS	NS
MW-8	05/29/15	NS	NS	NS	NS
MW-8	11/23/15	NS	NS	NS	NS
MW-8	04/16/16	NS	NS	NS	NS
MW-8	10/12/16	NS	NS	NS	NS
MW-8	06/09/17	NS	NS	NS	NS
MW-8	11/12/17	NS	NS	NS	NS
MW-8	05/16/18	NS	NS	NS	NS
MW-8	07/15/18	NS	NS	NS	NS
MW-8	10/26/18	NS	NS	NS	NS
MW-8	05/22/19	NS	NS	NS	NS
MW-8	11/12/19	NS	NS	NS	NS
MW-8	05/17/20	NS	NS	NS	NS
MW-8	11/13/20	NS	NS	NS	NS
MW-8	05/18/21	NS	NS	NS	NS
MW-8	11/15/21	NS	NS	NS	NS
MW-8	05/20/22	NS	NS	NS	NS
MW-8	11/05/22	NS	NS	NS	NS
MW-8	05/19/23	NS	NS	NS	NS
MW-8	11/11/23	NS	NS	NS	NS
MW-8	05/15/24	NS	NS	NS	NS
MW-8	11/09/24	NS	NS	NS	NS
MW-9	12/12/13	180	310	46	430
MW-9	04/02/14	230	27	140	810
MW-9	10/23/14	10	1.6	9.4	2.9 J
MW-9	05/29/15	15	8.4 J	6	21
MW-9	11/23/15	9	2.8	<1.0	<3.0
MW-9	04/16/16	29	24	4.3	8.3
MW-9	10/12/16	1	8.7	<1.0	<5.0
MW-9	06/09/17	29	11	<1.0	5.4
MW-9	11/12/17	130	42	2.1	10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-9	05/16/18	1400	250	20	130
MW-9	10/26/18	600	130	9.5	67
MW-9	05/22/19	1800	120	38	240
MW-9	11/12/19	29	1.3	<1.0	3.0
MW-9	05/17/20	3300	110	70	450.0
MW-9	11/13/20	240	<2.0	6.1	35.0
MW-9	05/18/21	15	<0.41	<0.50	1.7 J
MW-9	11/15/21	8.9	<1.0	<1.0	<10
MW-9	05/20/22	56	1.7	1.1	<10
MW-9	11/05/22	39	<1.0	<1.0	<10
MW-9	05/19/23	85	6.5	2.2	13
MW-9	11/11/23	56	<1.0	1.3	<10
MW-9	05/15/24	130	9	4.8	25
MW-9	11/09/24	160	<1.0	6.8	29
MW-10	12/12/13	1200	3500	300	3200
MW-10	04/02/14	4.3	7	<0.20	13
MW-10	10/23/14	93	1.3	87	50
MW-10	05/29/15	130	8.5	31	13
MW-10	11/23/15	120	20	8.8	11
MW-10	04/16/16	NS	NS	NS	NS
MW-10	10/12/16	NS	NS	NS	NS
MW-10	06/09/17	NS	NS	NS	NS
MW-10	11/12/17	NS	NS	NS	NS
MW-10	05/16/18	NS	NS	NS	NS
MW-10	10/26/18	210	13	2.2	<10
MW-10	05/22/19	NS	NS	NS	NS
MW-10	11/12/19	NS	NS	NS	NS
MW-10	05/17/20	NS	NS	NS	NS
MW-10	11/13/20	2700	<20	53	<200
MW-10	05/18/21	NS	NS	NS	NS
MW-10	11/15/21	NS	NS	NS	NS
MW-10	05/20/22	NS	NS	NS	NS
MW-10	11/05/22	36	<1.0	<1.0	<10
MW-10	05/19/23	NS	NS	NS	NS
MW-10	11/11/23	1500	9.9	26	71
MW-10	05/15/24	NS	NS	NS	NS
MW-10	11/09/24	130	2.8	2.8	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-11	12/12/13	NS	NS	NS	NS
MW-11	04/02/14	NS	NS	NS	NS
MW-11	10/23/14	NS	NS	NS	NS
MW-11	05/29/15	NS	NS	NS	NS
MW-11	11/23/15	NS	NS	NS	NS
MW-11	04/16/16	NS	NS	NS	NS
MW-11	10/12/16	NS	NS	NS	NS
MW-11	06/09/17	NS	NS	NS	NS
MW-11	11/12/17	NS	NS	NS	NS
MW-11	05/16/18	NS	NS	NS	NS
MW-11	07/15/18	NS	NS	NS	NS
MW-11	10/26/18	NS	NS	NS	NS
MW-11	05/22/19	NS	NS	NS	NS
MW-11	11/12/19	NS	NS	NS	NS
MW-11	05/17/20	NS	NS	NS	NS
MW-11	11/13/20	NS	NS	NS	NS
MW-11	05/18/21	NS	NS	NS	NS
MW-11	11/15/21	NS	NS	NS	NS
MW-11	05/20/22	NS	NS	NS	NS
MW-11	11/05/22	290	240	280	330
MW-11	05/19/23	NS	NS	NS	NS
MW-11	11/11/23	19	9.0	73	27
MW-11	05/15/24	NS	NS	NS	NS
MW-11	11/09/24	NS	NS	NS	NS
MW-12	12/12/13	<0.14	<0.30	<0.20	0.39 J
MW-12	04/02/14	<0.20	0.54 J	<0.20	<0.65
MW-12	10/23/14	0.71 J	<0.70	0.59 J	<1.6
MW-12	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-12	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-12	04/16/16	NS	NS	NS	NS
MW-12	10/12/16	NS	NS	NS	NS
MW-12	06/09/17	NS	NS	NS	NS
MW-12	11/12/17	NS	NS	NS	NS
MW-12	05/16/18	NS	NS	NS	NS
MW-12	10/26/18	<1.0	<1.0	<1.0	<10
MW-12	05/22/19	NS	NS	NS	NS
MW-12	11/12/19	NS	NS	NS	NS
MW-12	05/17/20	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-12	11/13/20	<1.0	<1.0	<1.0	<10
MW-12	05/18/21	NS	NS	NS	NS
MW-12	11/15/21	NS	NS	NS	NS
MW-12	05/20/22	NS	NS	NS	NS
MW-12	11/05/22	<1.0	<1.0	<1.0	<10
MW-12	05/19/23	NS	NS	NS	NS
MW-12	11/11/23	<1.0	<1.0	<1.0	<10
MW-12	05/15/24	NS	NS	NS	NS
MW-12	11/09/24	<1.0	<1.0	<1.0	<10
MW-13	10/23/14	710	2	7.8	21
MW-13	05/29/15	6.1	<5.0	0.81 J	2.4 J
MW-13	11/23/15	3.7	<1.0	<1.0	<3.0
MW-13	04/16/16	1.6	<5.0	<1.0	<5.0
MW-13	10/12/16	1.8	<5.0	<1.0	<5.0
MW-13	06/09/17	3.4	<5.0	<1.0	<5.0
MW-13	11/12/17	<1.0	<1.0	<1.0	<10
MW-13	05/16/18	43	<1.0	<1.0	<10
MW-13	10/26/18	11	<1.0	<1.0	<10
MW-13	05/22/19	24	<1.0	<1.0	<10
MW-13	11/12/19	<1.0	<1.0	<1.0	<2.0
MW-13	05/17/20	360	<2.0	3.6	<20
MW-13	11/13/20	11	<1.0	<1.0	<10
MW-13	05/18/21	560	<0.82	5.9	16 J
MW-13	11/15/21	1.6	<1.0	<1.0	<10
MW-13	05/20/22	10	<1.0	<1.0	<10
MW-13	11/05/22	2.1	<1.0	<1.0	<10
MW-13	05/19/23	2.8	<1.0	<1.0	<10
MW-13	11/11/23	7.3	<1.0	<1.0	<10
MW-13	05/15/24	1.2	<1.0	<1.0	<10
MW-13	11/09/24	5	<1.0	<1.0	<10
MW-14	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-14	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-14	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-14	04/16/16	NS	NS	NS	NS
MW-14	10/12/16	NS	NS	NS	NS
MW-14	06/09/17	NS	NS	NS	NS
MW-14	11/12/17	NS	NS	NS	NS
MW-14	05/16/18	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-14	10/26/18	9.4	<1.0	<1.0	<10
MW-14	05/22/19	NS	NS	NS	NS
MW-14	11/12/19	NS	NS	NS	NS
MW-14	05/17/20	41	<1.0	<1.0	<10
MW-14	11/13/20	12	<1.0	<1.0	<10
MW-14	05/18/21	NS	NS	NS	NS
MW-14	11/15/21	NS	NS	NS	NS
MW-14	05/20/22	NS	NS	NS	NS
MW-14	11/05/22	4.4	<1.0	<1.0	<10
MW-14	05/19/23	NS	NS	NS	NS
MW-14	11/11/23	<1.0	<1.0	<1.0	<10
MW-14	05/15/24	NS	NS	NS	NS
MW-14	11/09/24	<1.0	<1.0	<1.0	<10
MW-15	10/23/14	61	1	18	120
MW-15	05/29/15	3200	1500	410	1700
MW-15	11/23/15	180	19	19	24
MW-15	04/16/16	5.8	9.5	<1.0	8.5
MW-15	10/12/16	8.3	7.6	<1.0	6.2
MW-15	06/09/17	19	<5.0	3	15
MW-15	11/12/17	1100	180	71	290
MW-15	05/16/18	980	190	32	190
MW-15	10/26/18	140	33	3.5	23
DUP-01(MW-15)*	10/26/18	150	32	3.0	21
MW-15	05/22/19	25	4.3	<1.0	<10
MW-15	11/12/19	210	26	8.9	70
MW-15	05/17/20	99	9.7	1.9	18
MW-15	11/13/20	20	<1.0	<1.0	<10
MW-15	05/18/21	42	1.2	0.83 J	6.9 J
MW-15	11/15/21	120	12	3.7	30
MW-15	05/20/22	1.9	<1.0	<1.0	<10
MW-15	11/05/22	21	<1.0	<1.0	<10
MW-15	05/19/23	1.6	<1.0	<1.0	<10
MW-15	11/11/23	2100	<20	72	480
MW-15	05/15/24	1200	47	34	230
MW-15	11/09/24	1900	33	68	450
MW-16	10/23/14	0.93 J	<0.70	<0.50	3.4 J
MW-16	05/29/15	54	15	22	24
MW-16	11/23/15	4.2	1.1	2.3	<3.0

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-16	04/16/16	590	120	140	430
MW-16	10/12/16	<1.0	<5.0	<1.0	<5.0
MW-16	06/09/17	<1.0	<5.0	<1.0	<5.0
MW-16	11/12/17	29	2.3	2.8	14
MW-16	05/16/18	36	15	1.8	16
DUP-01(MW-16)*	05/16/18	30	11	1.2	11
MW-16	10/26/18	9.2	<1.0	<1.0	<10
MW-16	05/22/19	12	<1.0	<1.0	<10
MW-16	11/12/19	9.7	<1.0	<1.0	<2.0
MW-16	05/17/20	12	<1.0	<1.0	<10
MW-16	11/13/20	2.7	<1.0	<1.0	<10
MW-16	05/18/21	5.3	<0.41	<0.50	<1.6
MW-16	11/15/21	150	<1.0	5.4	<10
MW-16	05/20/22	2.4	<1.0	<1.0	<10
MW-16	11/05/22	1.6	<1.0	<1.0	<10
MW-16	05/19/23	12	<1.0	<1.0	<10
MW-16	11/11/23	1200	<10	49	<100
MW-16	05/15/24	340	<1.0	20	34
MW-16	11/09/24	320	<2.0	27	28
MW-17	10/23/14	3	<0.70	1.5	4.6 J
MW-17	05/29/15	6.7	0.98 J	3.4	16
MW-17	11/23/15	14	<1.0	5.9	12
MW-17	04/16/16	NS	NS	NS	NS
MW-17	10/12/16	NS	NS	NS	NS
MW-17	06/09/17	NS	NS	NS	NS
MW-17	11/12/17	NS	NS	NS	NS
MW-17	05/16/18	NS	NS	NS	NS
MW-17	10/26/18	13	<1.0	2.6	<10
MW-17	05/22/19	NS	NS	NS	NS
MW-17	11/12/19	NS	NS	NS	NS
MW-17	05/17/20	2.7	<1.0	<1.0	<10
MW-17	11/13/20	<1.0	<1.0	<1.0	<10
MW-17	05/18/21	<0.38	<0.41	<0.50	<1.6
MW-17	11/15/21	<1.0	<1.0	<1.0	<10
MW-17	05/20/22	1.1	<1.0	<1.0	<10
MW-17	11/05/22	<1.0	<1.0	<1.0	<10
MW-17	05/19/23	6.3	<1.0	1.1	<10
MW-17	11/11/23	690	<10	180	1000

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-17	05/15/24	75	<1.0	22	100
MW-17	11/09/24	95	<1.0	25	110
MW-18	10/23/14	6.5	3.2	<0.50	11
MW-18	05/29/15	12	7.2	2.8	16
MW-18	11/23/15	18	10	3.6	24
MW-18	04/16/16	2.4	<5.0	1.1	7.5
MW-18	10/12/16	1.4	<5.0	<1.0	<5.0
MW-18	06/09/17	8.7	<5.0	3.5	24
MW-18	11/12/17	<1.0	<1.0	<1.0	<10
MW-18	05/16/18	8.9	<1.0	2.4	17
MW-18	10/26/18	32	5.5	9.8	75
MW-18	05/22/19	9.1	<1.0	3.1	21
MW-18	11/12/19	24	<1.0	8.8	64
MW-18	05/17/20	160	<2.0	56	420
DUP-01(MW-18)*	05/17/20	17	<1.0	6.7	51
MW-18	11/13/20	3.2	<1.0	1.3	<10
MW-18	05/18/21	3.7	<0.41	1.0	7.0 J
DUP-01(MW-18)*	05/18/21	7.4	<0.41	2.2	15
MW-18	11/15/21	4.7	<1.0	1.6	11
MW-18	05/20/22	7.9	<1.0	1.6	11
DUP-01(MW-18)*	05/20/22	2.9	<1.0	<1.0	<10
MW-18	11/05/22	3.5	<1.0	1.0	<10
MW-18	05/19/23	7.5	<1.0	1.5	10
MW-18	11/11/23	16	<1.0	4.0	26
MW-18	05/15/24	81	<1.0	24.0	160
MW-18	11/09/24	16	<1.0	3.9	22
DUP-01(MW-18)*	11/09/24	20	<1.0	6.1	36
MW-19	10/23/14	22	6	1.7	20
MW-19	05/29/15	3.7	<5.0	1.3	2.6 J
MW-19	11/23/15	67	18	15	40
MW-19	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-19	10/12/16	<1.0	<5.0	<1.0	<5.0
MW-19	06/09/17	64	31	7.3	55
MW-19	11/12/17	68	20	8.5	62
MW-19	05/16/18	31	1.2	1.7	13
MW-19	10/26/18	15	<1.0	1	<10
MW-19	05/22/19	190	<1.0	13	88
MW-19	11/12/19	27	<1.0	2.2	15

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-19	05/17/20	18	<1.0	1.5	10
MW-19	11/13/20	16	<1.0	1.4	<10
DUP-02(MW-19)*	11/13/20	29	<1.0	2.8	18
MW-19	05/18/21	46	<0.41	3.4	24
MW-19	11/15/21	<1.0	<1.0	<1.0	<10
MW-19	05/20/22	10	<1.0	<1.0	<10
MW-19	11/05/22	8.6	<1.0	<1.0	<10
MW-19	05/19/23	21	<1.0	1.5	<10
MW-19	11/11/23	75	<1.0	4.4	41
MW-19	05/15/24	20	<1.0	1.8	12
MW-19	11/09/24	9.6	<1.0	<1.0	<10
MW-20	10/23/14	28	2.7	2.6	42
MW-20	05/29/15	28	3.7 J	10	6.3
MW-20	11/23/15	6.9	<1.0	12	<3.0
MW-20	04/16/16	<1.0	<5.0	<1.0	<5.0
MW-20	10/12/16	NS	NS	NS	NS
MW-20	06/09/17	42	11	1.1	37
MW-20	11/12/17	58	25	1.3	17
MW-20	05/16/18	71	5.6	1.2	13
MW-20	10/26/18	82	19	1.7	17
MW-20	05/22/19	3.3	<1.0	<1.0	<10
DUP-01(MW-20)*	05/22/19	16	<1.0	<1.0	<10
MW-20	11/12/19	170	<1.0	3.2	28
MW-20	05/17/20	19	<1.0	<1.0	<10
MW-20	11/13/20	210	<1.0	3.6	35
MW-20	05/18/21	250	7.6	2.7	34
MW-20	11/15/21	9.3	<1.0	<1.0	<10
MW-20	05/20/22	120	2	2.6	23
MW-20	11/05/22	43	<1.0	2.3	11
MW-20	05/19/23	110	1.0	2.3	20
MW-20	11/11/23	420	<5.0	15	110
MW-20	05/15/24	220	2.9	5.3	40
MW-20	11/09/24	330	<2.0	19	140
MW-21	05/17/20	6800	1200	220	2800
MW-21	11/13/20	NS	NS	NS	NS
MW-21	05/18/21	NS	NS	NS	NS
MW-21	11/15/21	NS	NS	NS	NS
MW-21	05/20/22	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-21	11/05/22	NS	NS	NS	NS
MW-21	11/15/22	NS	NS	NS	NS
MW-21	05/19/23	NS	NS	NS	NS
MW-21	11/11/23	NS	NS	NS	NS
MW-21	05/15/24	NS	NS	NS	NS
MW-21	11/09/24	NS	NS	NS	NS
MW-22	05/17/20	NS	NS	NS	NS
MW-22	11/13/20	NS	NS	NS	NS
MW-22	05/18/21	NS	NS	NS	NS
MW-22	08/22/21	NS	NS	NS	NS
MW-22	11/15/21	NS	NS	NS	NS
MW-22	05/20/22	NS	NS	NS	NS
MW-22	11/05/22	NS	NS	NS	NS
MW-22	11/15/22	NS	NS	NS	NS
MW-22	03/28/23	NS	NS	NS	NS
MW-22	05/19/23	160	<2.0	43	440
MW-22	11/11/23	700 H	<20 H	190 H	2100 H
MW-22	05/15/24	NS	NS	NS	NS
MW-22	11/09/24	5.0	<1.0	2.5	22
MW-23	05/17/20	3.3	4	1.7	15
MW-23	11/13/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-23)*	11/13/20	<1.0	<1.0	<1.0	<10
MW-23	05/18/21	<0.38	<0.41	<0.50	<1.6
MW-23	11/15/21	<1.0	<1.0	<1.0	<10
MW-23	05/20/22	<1.0	<1.0	<1.0	<10
MW-23	11/05/22	<1.0	<1.0	<1.0	<10
MW-23	05/19/23	<1.0	<1.0	<1.0	<10
MW-23	11/11/23	<1.0	<1.0	<1.0	<10
MW-23	05/15/24	<1.0	<1.0	<1.0	<10
MW-23	11/09/24	<1.0	<1.0	<1.0	<10
MW-24	05/19/23	<1.0	<1.0	<1.0	<10
DUP-01(MW-24)*	05/19/23	<1.0	<1.0	<1.0	<10
MW-24	11/11/23	18	<1.0	1.6	<10
DUP-01(MW-24)*	11/11/23	46	<1.0	3.7	<10
MW-24	05/15/24	<1.0	<1.0	<1.0	<10
DUP-01(MW-24)*	05/15/24	<1.0	<1.0	<1.0	<10
MW-24	11/09/24	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Johnston Federal #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-25	11/05/22	<1.0	<1.0	8.7	31
MW-25	05/19/23	<1.0	<1.0	<1.0	<10
MW-25	11/11/23	<1.0	<1.0	<1.0	<10
MW-25	05/15/24	<1.0	<1.0	<1.0	<10
MW-25	11/09/24	<1.0	<1.0	<1.0	<10

Notes:
"NS" = Not sampled
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = Analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
*Field Duplicate results presented immediately below primary sample result

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	08/08/95	6073.24	NR	50.08		6023.16
MW-1	01/04/96	6073.24	NR	50.23		6023.01
MW-1	12/17/96	6073.24	49.94	50.50	0.56	6023.16
MW-1	03/06/97	6073.24	49.99	50.38	0.39	6023.15
MW-1	06/22/01	6073.24	49.82	49.96	0.14	6023.39
MW-1	09/04/01	6073.24	49.94	50.05	0.11	6023.27
MW-1	03/04/02	6073.24	50.23	50.40	0.17	6022.97
MW-1	06/03/02	6073.24	50.31	50.50	0.19	6022.88
MW-1	09/10/02	6073.24	50.51	50.70	0.19	6022.68
MW-1	12/12/02	6073.24	50.60	50.83	0.23	6022.58
MW-1	03/14/03	6073.24	50.73	50.90	0.17	6022.47
MW-1	06/18/03	6073.24	50.74	51.28	0.54	6022.37
MW-1	09/16/03	6073.24	50.78	51.70	0.92	6022.23
MW-1	12/17/03	6073.24	50.92	51.15	0.23	6022.26
MW-1	03/16/04	6073.24	50.98	51.14	0.16	6022.22
MW-1	06/22/04	6073.24	51.02	51.15	0.13	6022.19
MW-1	09/22/04	6073.24	51.06	51.18	0.12	6022.15
MW-1	12/21/04	6073.24	51.08	51.15	0.07	6022.14
MW-1	03/23/05	6073.24	ND	51.13		6022.11
MW-1	06/23/05	6073.24	ND	51.09		6022.15
MW-1	09/20/05	6073.24	ND	51.12		6022.12
MW-1	12/14/05	6073.24	ND	51.02		6022.22
MW-1	12/15/05	6073.24	ND	51.02		6022.22
MW-1	03/27/06	6073.24	ND	51.86		6021.38
MW-1	06/07/06	6073.24	ND	50.92		6022.32
MW-1	09/25/06	6073.24	ND	51.09		6022.15
MW-1	12/07/06	6073.24	ND	51.06		6022.18
MW-1	03/28/07	6073.24	ND	50.85		6022.39
MW-1	06/18/07	6073.24	ND	50.90		6022.34
MW-1	09/17/07	6073.24	ND	51.04		6022.20
MW-1	12/17/07	6073.24	ND	51.05		6022.19
MW-1	03/10/08	6073.24	ND	50.93		6022.31
MW-1	06/17/08	6073.24	ND	50.14		6023.10
MW-1	09/10/08	6073.24	ND	49.81		6023.43
MW-1	12/02/08	6073.24	ND	49.66		6023.58
MW-1	03/03/09	6073.24	ND	49.60		6023.64
MW-1	06/09/09	6073.24	ND	49.61		6023.63
MW-1	08/28/09	6073.24	ND	49.71		6023.53

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/04/09	6073.24	ND	49.83		6023.41
MW-1	02/11/10	6073.24	ND	49.93		6023.31
MW-1	06/07/10	6073.24	ND	50.12		6023.12
MW-1	09/24/10	6073.24	ND	50.33		6022.91
MW-1	11/02/10	6073.24	ND	50.40		6022.84
MW-1	02/07/11	6073.24	ND	50.53		6022.71
MW-1	05/10/11	6073.24	ND	50.69		6022.55
MW-1	09/23/11	6073.24	ND	50.93		6022.31
MW-1	11/01/11	6073.24	ND	50.99		6022.25
MW-1	02/21/12	6073.24	ND	51.15		6022.09
MW-1	05/14/12	6073.24	ND	51.24		6022.00
MW-1	06/09/13	6073.24	51.61	51.68	0.07	6021.61
MW-1	09/09/13	6073.24	51.78	51.84	0.06	6021.45
MW-1	12/12/13	6073.24	51.80	51.85	0.05	6021.43
MW-1	04/02/14	6073.24	ND	51.81		6021.43
MW-1	10/23/14	6073.24	51.95	52.04	0.09	6021.27
MW-1	05/29/15	6073.24	ND	52.02		6021.22
MW-1	11/23/15	6073.24	51.76	51.76	<0.01	6021.48
MW-1	04/16/16	6073.24	51.61	51.68	0.07	6021.61
MW-1	10/12/16	6073.24	51.71	51.73	0.02	6021.53
MW-1	06/09/17	6073.24	51.76	51.78	0.02	6021.48
MW-1	07/15/17	6073.24	51.85	51.87	0.02	6021.39
MW-1	11/12/17	6073.24	51.85	51.86	0.01	6021.39
MW-1	05/16/18	6073.24	51.83	51.97	0.14	6021.38
MW-1	07/15/18	6073.24	51.64	51.75	0.11	6021.57
MW-1	10/26/18	6073.24	51.77	51.77	<0.01	6021.47
MW-1	05/22/19	6073.24	51.85	51.96	0.11	6021.36
MW-1	11/12/19	6073.24	51.93	51.95	0.02	6021.31
MW-1	05/17/20	6073.24	52.03	52.05	0.02	6021.21
MW-1	08/19/20	6073.24	52.10	52.11	0.01	6021.14
MW-1	11/13/20	6073.24	52.14	52.15	0.01	6021.10
MW-1	03/18/21	6073.24	ND	52.21		6021.03
MW-1	05/18/21	6073.24	52.23	52.24	0.01	6021.01
MW-1	08/22/21	6073.24	ND	52.23		6021.01
MW-1	11/15/21	6073.24	ND	52.30		6020.94
MW-1	03/23/22	6073.24	ND	52.36		6020.88
MW-1	05/20/22	6073.24	ND	52.33		6020.91
MW-1	07/31/22	6073.24	52.36	52.37		6020.88

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/05/22	6073.24	52.05	52.06	0.01	6021.19
MW-1	03/28/23	6073.24	ND	51.88	0.01	6021.36
MW-1	05/19/23	6073.24	ND	51.85		6021.39
MW-1	08/30/23	6073.24	ND	51.77		6021.47
MW-1	11/11/23	6073.24	ND	51.80		6021.44
MW-1	03/27/24	6073.24	ND	51.82		6021.42
MW-1	05/15/24	6073.24	ND	51.82		6021.42
MW-1	08/30/24	6073.24	ND	51.94		6021.30
MW-1	11/09/24	6073.24	ND	52.00		6021.24
MW-2	01/04/96	6072.14	NR	48.71		6023.43
MW-2	12/17/96	6072.14	NR	48.84		6023.30
MW-2	03/06/97	6072.14	NR	48.94		6023.20
MW-2	06/22/01	6072.14	NR	48.62		6023.52
MW-2	09/04/01	6072.14	NR	48.78		6023.36
MW-2	06/03/02	6072.14	NR	49.15		6022.99
MW-2	09/10/02	6072.14	NR	49.27		6022.87
MW-2	12/12/02	6072.14	NR	49.42		6022.72
MW-2	06/18/03	6072.14	ND	49.62		6022.52
MW-2	09/16/03	6072.14	ND	49.76		6022.38
MW-2	12/17/03	6072.14	ND	49.72		6022.42
MW-2	03/16/04	6072.14	ND	49.78		6022.36
MW-2	06/22/04	6072.14	ND	49.82		6022.32
MW-2	09/22/04	6072.14	ND	49.84		6022.30
MW-2	12/21/04	6072.14	ND	49.86		6022.28
MW-2	03/23/05	6072.14	ND	49.89		6022.25
MW-2	06/23/05	6072.14	ND	49.87		6022.27
MW-2	09/20/05	6072.14	ND	49.89		6022.25
MW-2	12/14/05	6072.14	ND	49.75		6022.39
MW-2	03/27/06	6072.14	ND	49.62		6022.52
MW-2	06/07/06	6072.14	ND	49.67		6022.47
MW-2	09/25/06	6072.14	ND	49.85		6022.29
MW-2	12/07/06	6072.14	ND	49.82		6022.32
MW-2	03/28/07	6072.14	ND	49.63		6022.51
MW-2	06/19/07	6072.14	ND	49.67		6022.47
MW-2	09/17/07	6072.14	ND	49.82		6022.32
MW-2	12/17/07	6072.14	ND	49.82		6022.32
MW-2	03/10/08	6072.14	ND	49.92		6022.22
MW-2	06/17/08	6072.14	ND	48.93		6023.21

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	09/10/08	6072.14	ND	48.60		6023.54
MW-2	12/02/08	6072.14	ND	48.43		6023.71
MW-2	03/03/09	6072.14	ND	48.37		6023.77
MW-2	06/04/09	6072.14	ND	48.38		6023.76
MW-2	06/09/09	6072.14	ND	48.43		6023.71
MW-2	08/28/09	6072.14	ND	48.50		6023.64
MW-2	11/04/09	6072.14	ND	48.62		6023.52
MW-2	02/11/10	6072.14	ND	48.72		6023.42
MW-2	06/07/10	6072.14	ND	48.98		6023.16
MW-2	09/24/10	6072.14	ND	49.11		6023.03
MW-2	11/02/10	6072.14	ND	49.17		6022.97
MW-2	02/07/11	6072.14	ND	49.33		6022.81
MW-2	05/10/11	6072.14	ND	49.45		6022.69
MW-2	09/23/11	6072.14	ND	49.72		6022.42
MW-2	11/01/11	6072.14	ND	49.77		6022.37
MW-2	02/21/12	6072.14	ND	49.91		6022.23
MW-2	05/14/12	6072.14	ND	50.00		6022.14
MW-2	06/09/13	6072.14	ND	50.38		6021.76
MW-2	09/09/13	6072.14	ND	50.56		6021.58
MW-2	12/12/13	6072.14	ND	50.56		6021.58
MW-2	04/02/14	6072.14	ND	50.59		6021.55
MW-2	10/23/14	6072.14	ND	50.73		6021.41
MW-2	05/29/15	6072.14	ND	50.80		6021.34
MW-2	11/23/15	6072.14	ND	50.54		6021.60
MW-2	04/16/16	6072.14	ND	50.39		6021.75
MW-2	10/12/16	6072.14	ND	50.47		6021.67
MW-2	06/09/17	6072.14	ND	50.52		6021.62
MW-2	11/12/17	6072.14	ND	50.65		6021.49
MW-2	05/16/18	6072.14	ND	50.63		6021.51
MW-2	10/26/18	6072.14	ND	50.80		6021.34
MW-2	05/22/19	6072.14	ND	50.89		6021.25
MW-2	11/12/19	6072.14	ND	50.97		6021.17
MW-2	05/17/20	6072.14	ND	51.04		6021.10
MW-2	11/13/20	6072.14	ND	51.15		6020.99
MW-2	05/18/21	6072.14	ND	51.23		6020.91
MW-2	11/15/21	6072.14	ND	51.31		6020.83
MW-2	05/20/22	6072.14	ND	51.32		6020.82
MW-2	11/05/22	6072.14	ND	51.06		6021.08

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	05/19/23	6072.14	ND	50.85		6021.29
MW-2	11/11/23	6072.14	ND	50.78		6021.36
MW-2	05/15/24	6072.14	ND	50.83		6021.31
MW-2	11/09/24	6072.14	ND	51.00		6021.14
MW-3	03/19/96	6073.11	NR	49.81		6023.30
MW-3	12/17/96	6073.11	NR	49.84		6023.27
MW-3	03/06/97	6073.11	49.83	49.87	0.04	6023.27
MW-3	06/22/01	6073.11	49.58	49.66	0.08	6023.51
MW-3	09/04/01	6073.11	49.70	49.76	0.06	6023.40
MW-3	03/04/02	6073.11	49.91	50.35	0.44	6023.09
MW-3	06/03/02	6073.11	49.96	50.62	0.66	6022.99
MW-3	09/10/02	6073.11	50.12	50.79	0.67	6022.82
MW-3	12/12/02	6073.11	50.25	50.95	0.70	6022.69
MW-3	03/14/03	6073.11	50.34	51.03	0.69	6022.60
MW-3	06/18/03	6073.11	50.45	51.16	0.71	6022.48
MW-3	09/16/03	6073.11	50.59	51.30	0.71	6022.35
MW-3	12/17/03	6073.11	50.60	51.08	0.48	6022.39
MW-3	03/16/04	6073.11	50.68	51.10	0.42	6022.33
MW-3	06/22/04	6073.11	50.68	51.22	0.54	6022.30
MW-3	09/22/04	6073.11	50.69	51.30	0.61	6022.27
MW-3	12/21/04	6073.11	50.71	51.32	0.61	6022.25
MW-3	03/23/05	6073.11	50.76	51.85	1.09	6022.08
MW-3	06/23/05	6073.11	50.76	51.20	0.44	6022.24
MW-3	09/20/05	6073.11	ND	51.43		6021.68
MW-3	12/14/05	6073.11	ND	51.31		6021.80
MW-3	12/15/05	6073.11	50.92	51.32	0.40	6022.09
MW-3	03/27/06	6073.11	50.58	50.92	0.34	6022.45
MW-3	06/07/06	6073.11	50.56	51.01	0.45	6022.44
MW-3	09/25/06	6073.11	50.80	51.27	0.47	6022.19
MW-3	12/07/06	6073.11	50.77	51.07	0.30	6022.27
MW-3	03/28/07	6073.11	50.66	50.99	0.33	6022.37
MW-3	06/18/07	6073.11	50.58	50.97	0.39	6022.43
MW-3	09/17/07	6073.11	50.78	51.15	0.37	6022.24
MW-3	12/17/07	6073.11	50.78	51.08	0.30	6022.26
MW-3	03/10/08	6073.11	50.75	50.90	0.15	6022.32
MW-3	06/17/08	6073.11	49.89	49.98	0.09	6023.20
MW-3	09/10/08	6073.11	ND	49.77		6023.34
MW-3	12/02/08	6073.11	ND	49.58		6023.53

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	03/03/09	6073.11	ND	49.55		6023.56
MW-3	06/09/09	6073.11	ND	49.39		6023.72
MW-3	08/28/09	6073.11	ND	49.65		6023.46
MW-3	11/04/09	6073.11	ND	49.63		6023.48
MW-3	02/11/10	6073.11	ND	49.83		6023.28
MW-3	06/07/10	6073.11	49.70	49.90	0.20	6023.36
MW-3	09/24/10	6073.11	ND	50.19		6022.92
MW-3	11/02/10	6073.11	ND	50.26		6022.85
MW-3	02/07/11	6073.11	ND	50.40		6022.71
MW-3	05/10/11	6073.11	ND	50.46		6022.65
MW-3	09/23/11	6073.11	ND	50.73		6022.38
MW-3	11/01/11	6073.11	ND	50.82		6022.29
MW-3	02/21/12	6073.11	50.86	51.36	0.50	6022.13
MW-3	05/14/12	6073.11	50.84	51.50	0.66	6022.11
MW-3	06/09/13	6073.11	51.15	52.02	0.87	6021.74
MW-3	09/09/13	6073.11	51.29	52.36	1.07	6021.55
MW-3	12/12/13	6073.11	51.30	52.39	1.09	6021.54
MW-3	04/02/14	6073.11	51.30	52.41	1.11	6021.53
MW-3	10/23/14	6073.11	51.43	52.59	1.16	6021.39
MW-3	05/29/15	6073.11	51.51	52.64	1.13	6021.32
MW-3	11/23/15	6073.11	51.32	52.11	0.79	6021.59
MW-3	04/16/16	6073.11	51.20	51.90	0.70	6021.74
MW-3	10/12/16	6073.11	ND	51.42		6021.69
MW-3	11/30/16	6073.11	51.58	51.79	0.21	6021.48
MW-3	06/09/17	6073.11	51.50	51.52	0.02	6021.61
MW-3	07/15/17	6073.11	ND	51.77		6021.34
MW-3	11/12/17	6073.11	51.54	51.55	0.01	6021.57
MW-3	05/16/18	6073.11	51.47	52.05	0.58	6021.50
MW-3	07/15/18	6073.11	ND	51.77		6021.34
MW-3	10/26/18	6073.11	51.72	51.72	<0.01	6021.39
MW-3	05/22/19	6073.11	51.79	52.02	0.23	6021.26
MW-3	11/12/19	6073.11	51.84	51.89	0.05	6021.26
MW-3	05/17/20	6073.11	51.96	52.12	0.16	6021.11
MW-3	08/19/20	6073.11	52.04	52.14	0.10	6021.05
MW-3	11/13/20	6073.11	52.10	52.12	0.02	6021.01
MW-3	03/18/21	6073.11	52.19	52.26	0.07	6020.90
MW-3	05/18/21	6073.11	52.21	52.25	0.04	6020.89
MW-3	08/22/21	6073.11	52.23	52.27	0.04	6020.87

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	11/15/21	6073.11	52.27	52.32	0.05	6020.83
MW-3	03/23/22	6073.11	52.33	52.37	0.04	6020.77
MW-3	05/20/22	6073.11	52.29	52.33	0.04	6020.81
MW-3	07/31/22	6073.11	52.32	52.34	0.02	6020.79
MW-3	11/05/22	6073.11	52.04	52.05	0.01	6021.07
MW-3	03/28/23	6073.11	ND	51.85		6021.26
MW-3	05/19/23	6073.11	ND	51.83		6021.28
MW-3	08/30/23	6073.11	ND	51.73		6021.38
MW-3	11/11/23	6073.11	ND	51.77		6021.34
MW-3	03/27/24	6073.11	ND	51.78		6021.33
MW-3	05/15/24	6073.11	ND	51.81		6021.30
MW-3	08/30/24	6073.11	ND	51.91		6021.20
MW-3	11/09/24	6073.11	ND	51.98		6021.13
MW-4	12/07/06	6072.71	ND	50.40		6022.31
MW-4	03/28/07	6072.71	ND	50.19		6022.52
MW-4	06/19/07	6072.71	ND	50.21		6022.50
MW-4	09/17/07	6072.71	ND	50.34		6022.37
MW-4	12/17/07	6072.71	ND	49.78		6022.93
MW-4	03/10/08	6072.71	ND	50.30		6022.41
MW-4	06/17/08	6072.71	ND	49.50		6023.21
MW-4	09/10/08	6072.71	ND	49.17		6023.54
MW-4	12/02/08	6072.71	ND	49.00		6023.71
MW-4	03/03/09	6072.71	ND	48.93		6023.78
MW-4	06/09/09	6072.71	ND	48.94		6023.77
MW-4	08/28/09	6072.71	ND	49.04		6023.67
MW-4	11/04/09	6072.71	ND	49.16		6023.55
MW-4	02/11/10	6072.71	ND	49.26		6023.45
MW-4	06/07/10	6072.71	ND	49.45		6023.26
MW-4	09/24/10	6072.71	ND	49.15		6023.56
MW-4	11/02/10	6072.71	ND	49.73		6022.98
MW-4	02/07/11	6072.71	ND	49.86		6022.85
MW-4	05/10/11	6072.71	ND	49.98		6022.73
MW-4	09/23/11	6072.71	ND	50.09		6022.62
MW-4	11/01/11	6072.71	ND	50.31		6022.40
MW-4	02/21/12	6072.71	ND	50.46		6022.25
MW-4	05/14/12	6072.71	ND	50.55		6022.16
MW-4	06/09/13	6072.71	ND	50.93		6021.78
MW-4	09/09/13	6072.71	ND	51.11		6021.60

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	12/12/13	6072.71	ND	51.12		6021.59
MW-4	04/02/14	6072.71	ND	51.14		6021.57
MW-4	10/23/14	6072.71	ND	51.26		6021.45
MW-4	05/29/15	6072.71	ND	51.33		6021.38
MW-4	11/23/15	6072.71	ND	51.08		6021.63
MW-4	04/16/16	6072.71	ND	50.92		6021.79
MW-4	10/12/16	6072.71	ND	51.01		6021.70
MW-4	06/09/17	6072.71	ND	51.07		6021.64
MW-4	11/12/17	6072.71	ND	51.17		6021.54
MW-4	05/16/18	6072.71	ND	51.16		6021.55
MW-4	10/26/18	6072.71	ND	51.33		6021.38
MW-4	05/22/19	6072.71	ND	51.40		6021.31
MW-4	11/12/19	6072.71	ND	51.47		6021.24
MW-4	05/17/20	6072.71	ND	51.58		6021.13
MW-4	11/13/20	6072.71	ND	51.68		6021.03
MW-4	05/18/21	6072.71	ND	51.75		6020.96
MW-4	11/15/21	6072.71	ND	51.85		6020.86
MW-4	05/20/22	6072.71	ND	51.86		6020.85
MW-4	11/05/22	6072.71	ND	51.62		6021.09
MW-4	05/19/23	6072.71	ND	51.40		6021.31
MW-4	11/11/23	6072.71	ND	51.35		6021.36
MW-4	05/15/24	6072.71	ND	51.37		6021.34
MW-4	11/09/24	6072.71	ND	51.56		6021.15
TMW-5	12/07/06	6072.29	ND	49.83		6022.46
TMW-5	03/28/07	6072.29	ND	49.58		6022.71
TMW-5	06/19/07	6072.29	ND	49.64		6022.65
TMW-5	09/17/07	6072.29	ND	49.77		6022.52
TMW-5	12/17/07	6072.29	ND	50.38		6021.91
TMW-5	03/10/08	6072.29	ND	46.59		6025.70
TMW-5	06/17/08	6072.29	ND	48.87		6023.42
TMW-5	09/10/08	6072.29	ND	48.56		6023.73
TMW-5	12/02/08	6072.29	ND	48.44		6023.85
TMW-5	03/03/09	6072.29	ND	44.40		6027.89
TMW-5	06/09/09	6072.29	ND	48.38		6023.91
TMW-5	08/28/09	6072.29	ND	DRY		0.00
TMW-5	11/04/09	6072.29	ND	48.58		6023.71
TMW-5	02/11/10	6072.29	ND	48.67		6023.62
TMW-5	06/07/10	6072.29	ND	48.81		6023.48

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
TMW-5	09/24/10	6072.29	ND	49.04		6023.25
TMW-5	11/02/10	6072.29	ND	49.12		6023.17
TMW-5	02/07/11	6072.29	ND	49.30		6022.99
TMW-5	05/10/11	6072.29	ND	49.41		6022.88
TMW-5	09/23/11	6072.29	ND	49.70		6022.59
TMW-5	11/01/11	6072.29	ND	49.71		6022.58
TMW-5	02/21/12	6072.29	ND	49.87		6022.42
TMW-5	05/14/12	6072.29	ND	49.96		6022.33
TMW-5	06/09/13	6072.29	ND	50.31		6021.98
TMW-5	09/09/13	6072.29	ND	50.48		6021.81
TMW-5	12/12/13	6072.29	ND	50.53		6021.76
TMW-5	04/02/14	6072.29	ND	50.54		6021.75
TMW-5	Well abandoned 8/11/2014					
MW-6	12/12/13	6072.76	51.10	51.13	0.03	6021.65
MW-6	04/02/14	6072.76	51.12	51.15	0.03	6021.63
MW-6	10/23/14	6072.76	ND	51.26		6021.50
MW-6	05/29/15	6072.76	ND	51.34		6021.42
MW-6	11/23/15	6072.76	ND	51.08		6021.68
MW-6	04/16/16	6072.76	ND	50.89		6021.87
MW-6	10/12/16	6072.76	ND	51.02		6021.74
MW-6	06/09/17	6072.76	ND	51.08		6021.68
MW-6	11/12/17	6072.76	ND	51.19		6021.57
MW-6	05/16/18	6072.76	ND	51.18		6021.58
MW-6	10/26/18	6072.76	ND	51.33		6021.43
MW-6	05/22/19	6072.76	ND	51.40		6021.36
MW-6	11/12/19	6072.76	ND	51.51		6021.25
MW-6	05/17/20	6072.76	ND	51.58		6021.18
MW-6	11/13/20	6072.76	ND	51.68		6021.08
MW-6	05/18/21	6072.76	ND	51.76		6021.00
MW-6	08/22/21	6072.76	ND	51.80		6020.96
MW-6	11/15/21	6072.76	ND	51.85		6020.91
MW-6	03/23/22	6072.76	ND	51.90		6020.86
MW-6	05/20/22	6072.76	ND	51.87		6020.89
MW-6	07/31/22	6072.76	ND	51.90		6020.86
MW-6	11/05/22	6072.76	ND	51.61		6021.15
MW-6	03/28/23	6072.76	ND	51.43		6021.33
MW-6	05/19/23	6072.76	ND	51.40		6021.36
MW-6	08/30/23	6072.76	ND	51.32		6021.44

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	11/11/23	6072.76	ND	51.35		6021.41
MW-6	03/27/24	6072.76	ND	51.36		6021.40
MW-6	05/15/24	6072.76	ND	51.37		6021.39
MW-6	11/09/24	6072.76	ND	51.55		6021.21
MW-7	12/12/13	6072.63	ND	51.12		6021.51
MW-7	04/02/14	6072.63	ND	51.13		6021.50
MW-7	10/23/14	6072.63	ND	51.25		22.00
MW-7	05/29/15	6072.63	ND	51.33		6021.30
MW-7	11/23/15	6072.63	ND	51.06		6021.57
MW-7	04/16/16	6072.63	ND	50.90		6021.73
MW-7	10/12/16	6072.63	ND	51.01		6021.62
MW-7	06/09/17	6072.63	ND	51.07		6021.56
MW-7	11/12/17	6072.63	ND	51.18		6021.45
MW-7	05/16/18	6072.63	50.98	51.86	0.88	6021.43
MW-7	07/15/18	6072.63	51.03	51.82	0.79	6021.40
MW-7	10/26/18	6072.63	51.13	51.14	0.01	6021.50
MW-7	05/22/19	6072.63	51.29	51.82	0.53	6021.21
MW-7	11/12/19	6072.63	51.28	52.08	0.80	6021.15
MW-7	05/17/20	6072.63	51.33	52.21	0.88	6021.08
MW-7	08/19/20	6072.63	51.42	52.30	0.88	6020.99
MW-7	11/13/20	6072.63	51.43	52.34	0.91	6020.97
MW-7	03/18/21	6072.63	51.20	51.53	0.33	6021.35
MW-7	05/18/21	6072.63	51.52	52.41	0.89	6020.89
MW-7	08/22/21	6072.63	51.72	52.03	0.31	6020.83
MW-7	11/15/21	6072.63	51.80	51.94	0.14	6020.80
MW-7	03/23/22	6072.63	51.86	51.92	0.06	6020.76
MW-7	05/20/22	6072.63	51.83	51.88	0.05	6020.79
MW-7	07/31/22	6072.63	51.87	51.90	0.03	6020.75
MW-7	11/05/22	6072.63	51.59	51.60	0.01	6021.04
MW-7	03/28/23	6072.63	51.28	51.79	0.51	6021.22
MW-7	05/19/23	6072.63	51.30	51.61	0.31	6021.25
MW-7	08/30/23	6072.63	51.22	51.49	0.27	6021.34
MW-7	11/11/23	6072.63	51.31	51.34	0.03	6021.31
MW-7	03/27/24	6072.63	51.33	51.40	0.07	6021.28
MW-7	05/15/24	6072.63	51.32	51.44	0.12	6021.28

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-7	08/30/24	6072.63	51.37	51.43	0.06	6021.25
MW-7	11/09/24	6072.63	51.50	51.65	0.15	6021.09
MW-8	12/12/13	6072.60	50.80	51.94	1.14	6021.52
MW-8	04/02/14	6072.60	50.81	51.93	1.12	6021.51
MW-8	10/23/14	6072.60	50.93	52.12	1.19	6021.37
MW-8	05/29/15	6072.60	51.00	52.18	1.18	6021.31
MW-8	11/23/15	6072.60	50.83	51.63	0.80	6021.57
MW-8	04/16/16	6072.60	50.68	51.44	0.76	6021.73
MW-8	10/12/16	6072.60	50.81	51.52	0.71	6021.61
MW-8	11/30/16	6072.60	50.89	51.49	0.60	6021.56
MW-8	06/09/17	6072.60	51.01	51.11	0.10	6021.57
MW-8	07/15/17	6072.60	50.68	52.28	1.60	6021.52
MW-8	11/12/17	6072.60	50.78	50.82	0.04	6021.81
MW-8	05/16/18	6072.60	50.90	51.83	0.93	6021.47
MW-8	07/15/18	6072.60	51.13	52.51	1.38	6021.13
MW-8	10/26/18	6072.60	51.04	51.04	<0.01	6021.56
MW-8	05/22/19	6072.60	51.09	52.12	1.03	6021.25
MW-8	11/12/19	6072.60	51.15	52.74	1.59	6021.05
MW-8	05/17/20	6072.60	51.23	52.41	1.18	6021.08
MW-8	08/19/20	6072.60	51.30	52.53	1.23	6020.99
MW-8	11/13/20	6072.60	51.33	52.53	1.20	6020.97
MW-8	03/18/21	6072.60	51.20	51.80	0.60	6021.25
MW-8	05/18/21	6072.60	51.60	51.98	0.38	6020.91
MW-8	08/22/21	6072.60	51.55	52.39	0.84	6020.84
MW-8	11/15/21	6072.60	51.59	52.44	0.85	6020.80
MW-8	03/23/22	6072.60	51.60	52.59	0.99	6020.75
MW-8	05/20/22	6072.60	51.61	52.42	0.81	6020.79
MW-8	07/31/22	6072.60	51.70	52.28	0.58	6020.76
MW-8	11/05/22	6072.60	51.51	51.78	0.27	6021.02
MW-8	03/28/23	6072.60	51.34	51.44	0.10	6021.24
MW-8	05/19/23	6072.60	51.31	51.42	0.11	6021.26
MW-8	08/30/23	6072.60	51.23	51.37	0.14	6021.34
MW-8	11/11/23	6072.60	51.26	51.37	0.11	6021.31
MW-8	03/27/24	6072.60	51.29	51.36	0.07	6021.29
MW-8	05/15/24	6072.60	51.31	51.38	0.07	6021.27

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-8	08/30/24	6072.60	51.41	51.50	0.09	6021.17
MW-8	11/09/24	6072.60	51.48	51.51	0.03	6021.11
MW-9	12/12/13	6073.57	ND	51.85		6021.72
MW-9	04/02/14	6073.57	ND	51.87		6021.70
MW-9	10/23/14	6073.57	ND	52.01		6021.56
MW-9	05/29/15	6073.57	ND	52.08		6021.49
MW-9	11/23/15	6073.57	ND	51.83		6021.74
MW-9	04/16/16	6073.57	ND	51.66		6021.91
MW-9	10/12/16	6073.57	ND	51.77		6021.80
MW-9	06/09/17	6073.57	ND	51.83		6021.74
MW-9	11/12/17	6073.57	ND	52.00		6021.57
MW-9	05/16/18	6073.57	ND	51.92		6021.65
MW-9	10/26/18	6073.57	ND	52.18		6021.39
MW-9	05/22/19	6073.57	ND	52.16		6021.41
MW-9	11/12/19	6073.57	ND	52.28		6021.29
MW-9	05/17/20	6073.57	ND	52.34		6021.23
MW-9	11/13/20	6073.57	ND	52.43		6021.14
MW-9	05/18/21	6073.57	ND	52.51		6021.06
MW-9	11/15/21	6073.57	ND	52.62		6020.95
MW-9	05/20/22	6073.57	ND	52.61		6020.96
MW-9	05/19/23	6073.57	ND	52.15		6021.42
MW-9	11/11/23	6073.57	ND	52.10		6021.47
MW-9	05/15/24	6073.57	ND	52.12		6021.45
MW-9	11/09/24	6073.57	ND	52.31		6021.26
MW-10	12/12/13	6073.42	ND	51.79		6021.63
MW-10	04/02/14	6073.42	ND	51.81		6021.61
MW-10	10/23/14	6073.42	ND	51.94		6021.48
MW-10	05/29/15	6073.42	ND	52.03		6021.39
MW-10	11/23/15	6073.42	ND	51.74		6021.68
MW-10	04/16/16	6073.42	ND	51.60		6021.82
MW-10	10/12/16	6073.42	ND	51.70		6021.72
MW-10	06/09/17	6073.42	ND	51.75		6021.67
MW-10	11/12/17	6073.42	ND	51.86		6021.56
MW-10	05/16/18	6073.42	ND	51.85		6021.57
MW-10	10/26/18	6073.42	ND	52.01		6021.41
MW-10	05/22/19	6073.42	ND	52.08		6021.34
MW-10	11/12/19	6073.42	ND	52.18		6021.24

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-10	05/17/20	6073.42	ND	52.50		6020.92
MW-10	11/13/20	6073.42	ND	52.36		6021.06
MW-10	05/18/21	6073.42	ND	52.44		6020.98
MW-10	11/15/21	6073.42	ND	52.52		6020.90
MW-10	05/20/22	6073.42	ND	52.56		6020.86
MW-10	05/19/23	6073.42	ND	52.07		6021.35
MW-10	11/11/23	6073.42	ND	52.04		6021.38
MW-10	05/15/24	6073.42	ND	52.04		6021.38
MW-10	11/09/24	6073.42	ND	52.23		6021.19
MW-11	12/12/13	6073.39	51.60	52.43	0.83	6021.58
MW-11	04/02/14	6073.39	51.61	52.33	0.72	6021.60
MW-11	10/23/14	6073.39	51.73	52.59	0.86	6021.45
MW-11	05/29/15	6073.39	51.79	52.69	0.90	6021.38
MW-11	11/23/15	6073.39	51.61	52.14	0.53	6021.65
MW-11	04/16/16	6073.39	51.51	51.80	0.29	6021.81
MW-11	10/12/16	6073.39	51.68	51.80	0.12	6021.68
MW-11	06/09/17	6073.39	51.22	53.24	2.02	6021.67
MW-11	07/15/17	6073.39	51.29	53.13	1.84	6021.64
MW-11	11/12/17	6073.39	51.52	51.54	0.02	6021.87
MW-11	05/16/18	6073.39	51.70	52.04	0.34	6021.61
MW-11	07/15/18	6073.39	51.82	52.52	0.70	6021.40
MW-11	10/26/18	6073.39	51.84	51.84	<0.01	6021.55
MW-11	05/22/19	6073.39	51.89	52.23	0.34	6021.42
MW-11	11/12/19	6073.39	51.94	52.53	0.59	6021.30
MW-11	05/17/20	6073.39	52.02	52.79	0.77	6021.18
MW-11	08/19/20	6073.39	52.27	52.35	0.08	6021.10
MW-11	11/13/20	6073.39	52.32	52.33	0.01	6021.07
MW-11	03/18/21	6073.39	ND	52.39		6021.00
MW-11	05/18/21	6073.39	ND	52.39		6021.00
MW-11	08/22/21	6073.39	52.45	52.45	<0.01	6020.94
MW-11	11/15/21	6073.39	ND	52.48		6020.91
MW-11	03/23/22	6073.39	ND	52.52		6020.87
MW-11	05/20/22	6073.39	ND	52.49		6020.90
MW-11	07/31/22	6073.39	ND	52.55		6020.84
MW-11	11/05/22	6073.39	ND	52.24		6021.15
MW-11	03/28/23	6073.39	ND	52.05		6021.34
MW-11	05/19/23	6073.39	ND	52.02		6021.37
MW-11	08/30/23	6073.39	ND	51.94		6021.45

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-11	11/11/23	6073.39	ND	51.97		6021.42
MW-11	03/27/24	6073.39	51.96	52.04	0.08	6021.35
MW-11	05/15/24	6073.39	51.94	52.19	0.25	6021.20
MW-11	08/30/24	6073.39	52.29	52.46	0.17	6020.93
MW-11	11/09/24	6073.39	52.16	52.21	0.05	6021.18
MW-12	12/12/13	6073.32	ND	48.13		6025.19
MW-12	04/02/14	6073.32	ND	48.09		6025.23
MW-12	10/23/14	6073.32	ND	48.31		6025.01
MW-12	05/29/15	6073.32	ND	48.31		6025.01
MW-12	11/23/15	6073.32	ND	48.11		6025.21
MW-12	04/16/16	6073.32	ND	47.85		6025.47
MW-12	10/12/16	6073.32	ND	47.57		6025.75
MW-12	06/09/17	6073.32	ND	47.54		6025.78
MW-12	11/12/17	6073.32	ND	47.51		6025.81
MW-12	05/16/18	6073.32	ND	47.33		6025.99
MW-12	10/26/18	6073.32	ND	47.38		6025.94
MW-12	05/22/19	6073.32	ND	47.73		6025.59
MW-12	11/12/19	6073.32	ND	47.78		6025.54
MW-12	05/17/20	6073.32	ND	47.85		6025.47
MW-12	11/13/20	6073.32	ND	47.86		6025.46
MW-12	05/18/21	6073.32	ND	47.91		6025.41
MW-12	11/15/21	6073.32	ND	47.93		6025.39
MW-12	05/20/22	6073.32	ND	47.98		6025.34
MW-12	05/19/23	6073.32	ND	47.81		6025.51
MW-12	11/11/23	6073.32	ND	47.68		6025.64
MW-12	05/15/24	6073.32	ND	47.65		6025.67
MW-12	11/09/24	6073.32	ND	47.86		6025.46
MW-13	10/23/14	6073.25	ND	51.62		6021.63
MW-13	05/29/15	6073.25	ND	51.69		6021.56
MW-13	11/23/15	6073.25	ND	51.42		6021.83
MW-13	04/16/16	6073.25	ND	51.29		6021.96
MW-13	10/12/16	6073.25	ND	51.37		6021.88
MW-13	06/09/17	6073.25	ND	51.44		6021.81
MW-13	11/12/17	6073.25	ND	51.54		6021.71
MW-13	05/16/18	6073.25	ND	51.52		6021.73
MW-13	10/26/18	6073.25	ND	51.68		6021.57
MW-13	05/22/19	6073.25	ND	51.71		6021.54

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-13	11/12/19	6073.25	ND	51.80		6021.45
MW-13	05/17/20	6073.25	ND	52.01		6021.24
MW-13	11/13/20	6073.25	ND	52.12		6021.13
MW-13	05/18/21	6073.25	ND	52.16		6021.09
MW-13	11/15/21	6073.25	ND	52.28		6020.97
MW-13	05/20/22	6073.25	ND	52.28		6020.97
MW-13	11/05/22	6073.25	ND	52.04		6021.21
MW-13	05/19/23	6073.25	ND	51.84		6021.41
MW-13	11/11/23	6073.25	ND	51.80		6021.45
MW-13	05/15/24	6073.25	ND	51.81		6021.44
MW-13	11/09/24	6073.25	ND	52.00		6021.25
MW-14	10/23/14	6073.14	ND	51.53		6021.61
MW-14	05/29/15	6073.14	ND	51.60		6021.54
MW-14	11/23/15	6073.14	ND	51.33		6021.81
MW-14	04/16/16	6073.14	ND	51.19		6021.95
MW-14	10/12/16	6073.14	ND	51.30		6021.84
MW-14	06/09/17	6073.14	ND	51.35		6021.79
MW-14	11/12/17	6073.14	ND	51.46		6021.68
MW-14	05/16/18	6073.14	ND	51.43		6021.71
MW-14	10/26/18	6073.14	ND	51.57		6021.57
MW-14	05/22/19	6073.14	ND	51.62		6021.52
MW-14	11/12/19	6073.14	ND	51.70		6021.44
MW-14	05/17/20	6073.14	ND	51.89		6021.25
MW-14	11/13/20	6073.14	ND	51.99		6021.15
MW-14	05/18/21	6073.14	ND	52.07		6021.07
MW-14	11/15/21	6073.14	ND	52.15		6020.99
MW-14	05/20/22	6073.14	ND	52.15		6020.99
MW-14	05/19/23	6073.14	ND	51.72		6021.42
MW-14	11/11/23	6073.14	ND	51.66		6021.48
MW-14	05/15/24	6073.14	ND	51.68		6021.46
MW-14	11/09/24	6073.14	ND	51.87		6021.27
MW-15	10/23/14	6072.47	ND	51.14		6021.33
MW-15	05/29/15	6072.47	ND	51.19		6021.28
MW-15	11/23/15	6072.47	ND	50.93		6021.54
MW-15	04/16/16	6072.47	ND	50.78		6021.69
MW-15	10/12/16	6072.47	ND	50.87		6021.60
MW-15	06/09/17	6072.47	ND	50.96		6021.51

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-15	11/12/17	6072.47	ND	51.06		6021.41
MW-15	05/16/18	6072.47	ND	51.03		6021.44
MW-15	10/26/18	6072.47	ND	51.19		6021.28
MW-15	05/22/19	6072.47	ND	51.27		6021.20
MW-15	11/12/19	6072.47	ND	51.35		6021.12
MW-15	05/17/20	6072.47	ND	51.42		6021.05
MW-15	11/13/20	6072.47	ND	51.53		6020.94
MW-15	05/18/21	6072.47	ND	51.61		6020.86
MW-15	11/15/21	6072.47	ND	51.69		6020.78
MW-15	05/20/22	6072.47	ND	51.71		6020.76
MW-15	11/05/22	6072.47	ND	51.46		6021.01
MW-15	05/19/23	6072.47	ND	51.26		6021.21
MW-15	11/11/23	6072.47	ND	51.25		6021.22
MW-15	05/15/24	6072.47	ND	51.24		6021.23
MW-15	11/09/24	6072.47	ND	51.41		6021.06
MW-16	10/23/14	6071.78	ND	50.49		6021.29
MW-16	05/29/15	6071.78	ND	50.57		6021.21
MW-16	11/23/15	6071.78	ND	50.30		6021.48
MW-16	04/16/16	6071.78	ND	50.15		6021.63
MW-16	10/12/16	6071.78	ND	50.24		6021.54
MW-16	06/09/17	6071.78	ND	50.32		6021.46
MW-16	11/12/17	6071.78	ND	50.44		6021.34
MW-16	05/16/18	6071.78	ND	50.40		6021.38
MW-16	10/26/18	6071.78	ND	50.55		6021.23
MW-16	05/22/19	6071.78	ND	51.40		6020.38
MW-16	11/12/19	6071.78	ND	50.69		6021.09
MW-16	05/17/20	6071.78	ND	50.78		6021.00
MW-16	11/13/20	6071.78	ND	50.88		6020.90
MW-16	05/18/21	6071.78	ND	50.97		6020.81
MW-16	11/15/21	6071.78	ND	51.05		6020.73
MW-16	05/20/22	6071.78	ND	51.08		6020.70
MW-16	05/19/23	6071.78	ND	50.62		6021.16
MW-16	11/11/23	6071.78	ND	50.55		6021.23
MW-16	05/15/24	6071.78	ND	50.58		6021.20
MW-16	11/09/24	6071.78	ND	50.76		6021.02
MW-17	10/23/14	6071.79	ND	50.51		6021.28
MW-17	05/29/15	6071.79	ND	50.58		6021.21

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-17	11/23/15	6071.79	ND	50.31		6021.48
MW-17	04/16/16	6071.79	ND	50.16		6021.63
MW-17	10/12/16	6071.79	ND	50.26		6021.53
MW-17	06/09/17	6071.79	ND	50.30		6021.49
MW-17	11/12/17	6071.79	ND	50.43		6021.36
MW-17	05/16/18	6071.79	ND	50.41		6021.38
MW-17	10/26/18	6071.79	ND	50.56		6021.23
MW-17	05/22/19	6071.79	ND	50.63		6021.16
MW-17	11/12/19	6071.79	ND	50.72		6021.07
MW-17	05/17/20	6071.79	ND	50.79		6021.00
MW-17	11/13/20	6071.79	ND	51.07		6020.72
MW-17	05/18/21	6071.79	ND	51.00		6020.79
MW-17	11/15/21	6071.79	ND	51.67		6020.12
MW-17	05/20/22	6071.79	ND	51.08		6020.71
MW-17	11/05/22	6071.79	ND	50.83		6020.96
MW-17	05/19/23	6071.79	ND	50.61		6021.18
MW-17	11/11/23	6071.79	ND	49.69		6022.10
MW-17	05/15/24	6071.79	ND	50.59		6021.20
MW-17	11/09/24	6071.79	ND	50.78		6021.01
MW-18	10/23/14	6072.71	ND	51.28		6021.43
MW-18	05/29/15	6072.71	ND	51.37		6021.34
MW-18	11/23/15	6072.71	ND	51.09		6021.62
MW-18	04/16/16	6072.71	ND	50.94		6021.77
MW-18	10/12/16	6072.71	ND	51.03		6021.68
MW-18	06/09/17	6072.71	ND	51.10		6021.61
MW-18	11/12/17	6072.71	ND	51.20		6021.51
MW-18	05/16/18	6072.71	ND	51.19		6021.52
MW-18	10/26/18	6072.71	ND	51.34		6021.37
MW-18	05/22/19	6072.71	ND	51.42		6021.29
MW-18	11/12/19	6072.71	ND	51.50		6021.21
MW-18	05/17/20	6072.71	ND	51.58		6021.13
MW-18	11/13/20	6072.71	ND	51.69		6021.02
MW-18	05/18/21	6072.71	ND	51.77		6020.94
MW-18	11/15/21	6072.71	ND	51.86		6020.85
MW-18	05/20/22	6072.71	ND	51.87		6020.84
MW-18	11/05/22	6072.71	ND	51.62		6021.09
MW-18	05/19/23	6072.71	ND	51.40		6021.31
MW-18	11/11/23	6072.71	ND	51.31		6021.40

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-18	05/15/24	6072.71	ND	51.38		6021.33
MW-18	11/09/24	6072.71	ND	51.56		6021.15
MW-19	10/23/14	6074.00	ND	52.41		6021.59
MW-19	05/29/15	6074.00	ND	52.48		6021.52
MW-19	11/23/15	6074.00	ND	52.21		6021.79
MW-19	04/16/16	6074.00	ND	52.17		6021.83
MW-19	10/12/16	6074.00	ND	52.15		6021.85
MW-19	06/09/17	6074.00	ND	52.22		6021.78
MW-19	11/12/17	6074.00	ND	52.32		6021.68
MW-19	05/16/18	6074.00	ND	52.31		6021.69
MW-19	10/26/18	6074.00	ND	52.48		6021.52
MW-19	05/22/19	6074.00	ND	52.55		6021.45
MW-19	11/12/19	6074.00	ND	52.66		6021.34
MW-19	05/17/20	6074.00	ND	52.73		6021.27
MW-19	11/13/20	6074.00	ND	52.84		6021.16
MW-19	05/18/21	6074.00	ND	52.92		6021.08
MW-19	11/15/21	6074.00	ND	53.01		6020.99
MW-19	05/20/22	6074.00	ND	53.02		6020.98
MW-19	11/05/22	6074.00	ND	52.75		6021.25
MW-19	05/19/23	6074.00	ND	52.55		6021.45
MW-19	11/11/23	6074.00	ND	52.50		6021.50
MW-19	05/15/24	6074.00	ND	52.52		6021.48
MW-19	11/09/24	6074.00	ND	52.72		6021.28
MW-20	10/23/14	6072.77	ND	51.33		6021.44
MW-20	05/29/15	6072.77	ND	51.41		6021.36
MW-20	11/23/15	6072.77	ND	51.14		6021.63
MW-20	04/16/16	6072.77	ND	50.99		6021.78
MW-20	10/12/16	6072.77	ND	51.09		6021.68
MW-20	06/09/17	6072.77	ND	51.14		6021.63
MW-20	11/12/17	6072.77	ND	51.24		6021.53
MW-20	05/16/18	6072.77	ND	51.24		6021.53
MW-20	10/26/18	6072.77	ND	51.38		6021.39
MW-20	05/22/19	6072.77	ND	51.46		6021.31
MW-20	11/12/19	6072.77	ND	51.55		6021.22
MW-20	05/17/20	6072.77	ND	51.62		6021.15
MW-20	11/13/20	6072.77	ND	51.73		6021.04
MW-20	05/18/21	6072.77	ND	51.83		6020.94

TABLE 3 - GROUNDWATER ELEVATION RESULTS

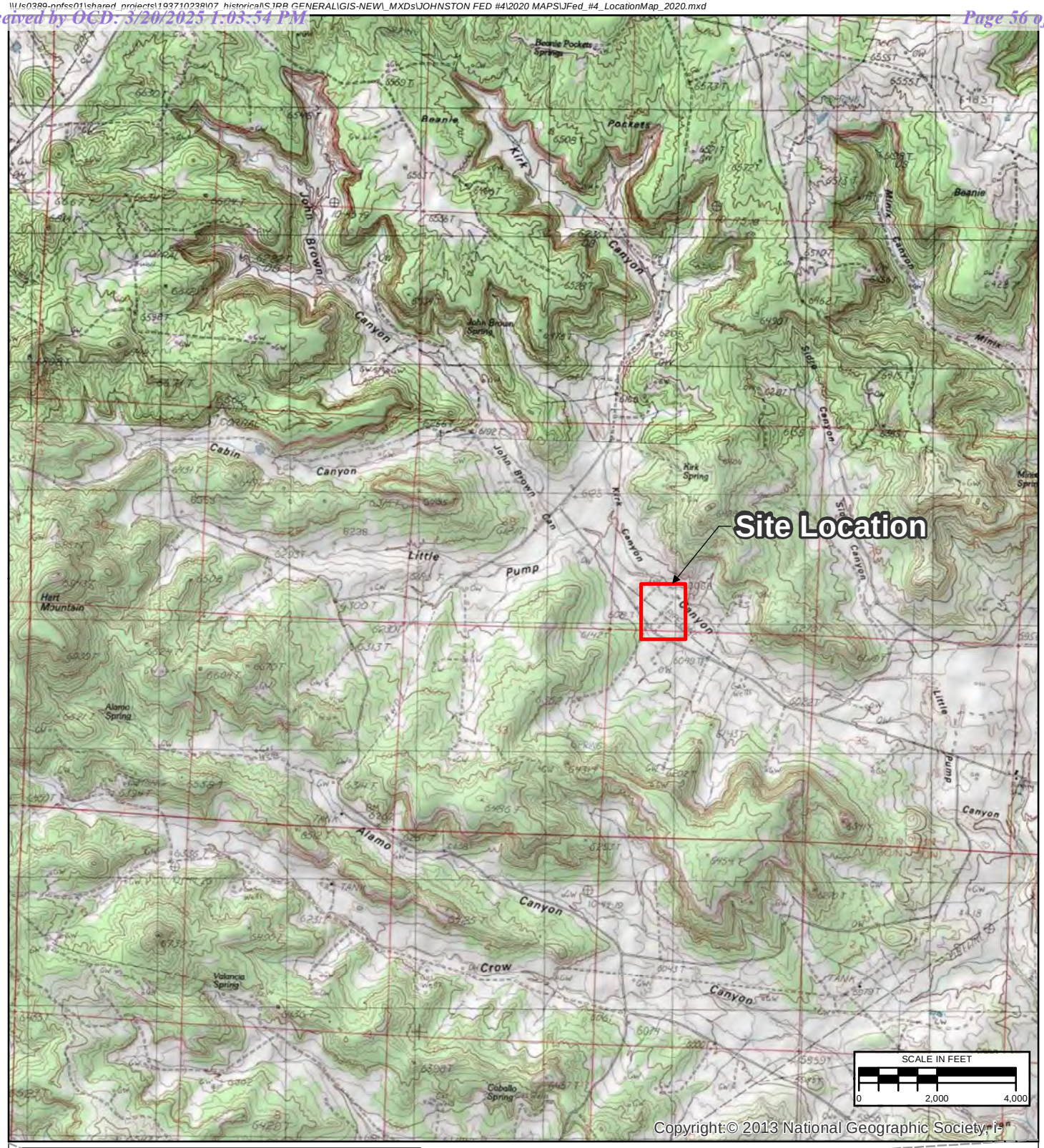
Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-20	11/15/21	6072.77	ND	51.91		6020.86
MW-20	05/20/22	6072.77	ND	51.92		6020.85
MW-20	11/05/22	6072.77	ND	51.65		6021.12
MW-20	05/19/23	6072.77	ND	51.45		6021.32
MW-20	11/11/23	6072.77	ND	51.39		6021.38
MW-20	05/15/24	6072.77	ND	51.43		6021.34
MW-20	11/09/24	6072.77	ND	51.60		6021.17
MW-21	05/17/20	6071.17	ND	50.27		6020.90
MW-21	11/13/20	6071.17	50.10	50.55	0.45	6020.96
MW-21	03/18/21	6071.17	50.18	50.50	0.32	6020.91
MW-21	05/18/21	6071.17	50.21	51.16	0.95	6020.72
MW-21	08/22/21	6071.17	50.25	51.25	1.00	6020.67
MW-21	11/15/21	6071.17	49.77	50.08	0.31	6021.32
MW-21	03/23/22	6071.17	50.28	51.42	1.14	6020.61
MW-21	05/20/22	6071.17	50.32	51.17	0.85	6020.64
MW-21	07/31/22	6071.17	50.36	51.16	0.80	6020.61
MW-21	08/01/22	6071.17	50.44	50.93	0.49	6020.61
MW-21	08/26/22	6071.17	50.44	50.84	0.07	6020.82
MW-21	08/27/22	6071.17	50.50	50.88	0.38	6020.58
MW-21	08/28/22	6071.17	ND	50.56		6020.61
MW-21	10/14/22	6071.17	50.39	50.42	0.03	6020.77
MW-21	11/05/22	6071.17	50.33	50.40	0.07	6020.82
MW-21	11/15/22	6071.17	ND	50.30		6020.87
MW-21	03/28/23	6071.17	50.09	50.11	0.02	6021.08
MW-21	05/19/23	6071.17	50.10	50.13	0.03	6021.06
MW-21	08/30/23	6071.17	50.00	50.03	0.03	6021.16
MW-21	11/11/23	6071.17	50.05	50.08	0.03	6021.11
MW-21	03/27/24	6071.17	50.05	50.06	0.01	6021.12
MW-21	05/15/24	6071.17	50.08	50.09	0.01	6021.09
MW-21	08/30/24	6071.17	51.14	51.16	0.02	6020.03
MW-21	11/09/24	6071.17	50.21	50.29	0.08	6020.94
MW-22	05/17/20	6070.47	49.57	49.58	0.01	6020.90
MW-22	08/19/20	6070.47	49.55	49.94	0.39	6020.82
MW-22	11/13/20	6070.47	49.79	49.95	0.16	6020.64
MW-22	03/18/21	6070.47	49.66	50.00	0.34	6020.73
MW-22	05/18/21	6070.47	49.65	50.09	0.44	6020.71
MW-22	08/22/21	6070.47	49.72	50.10	0.38	6020.66
MW-22	11/15/21	6070.47	50.24	51.38	1.14	6019.95

TABLE 3 - GROUNDWATER ELEVATION RESULTS

Johnston Federal #4						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-22	03/23/22	6070.47	49.82	50.08	0.26	6020.59
MW-22	05/20/22	6070.47	49.80	50.02	0.22	6020.62
MW-22	07/31/22	6070.47	49.87	49.92	0.05	6020.59
MW-22	08/01/22	6070.47	49.87	49.93	0.06	6020.59
MW-22	11/05/22	6070.47	49.60	49.61	0.01	6020.87
MW-22	11/15/22	6070.47	ND	49.65		6020.82
MW-22	03/28/23	6070.47	ND	49.42		6021.05
MW-22	05/19/23	6070.47	ND	49.38		6021.09
MW-22	08/30/23	6070.47	49.31	49.32	0.01	6021.16
MW-22	11/11/23	6070.47	ND	49.34		6021.13
MW-22	03/27/24	6070.47	ND	49.37		6021.10
MW-22	05/15/24	6070.47	ND	49.36		6021.11
MW-22	08/30/24	6070.47	ND	49.48		6020.99
MW-22	11/09/24	6070.47	ND	49.55		6020.92
MW-23	05/17/20	6071.30	ND	50.30		6021.00
MW-23	11/13/20	6071.30	ND	50.37		6020.93
MW-23	05/18/21	6071.30	ND	50.48		6020.82
MW-23	11/15/21	6071.30	ND	50.55		6020.75
MW-23	05/20/22	6071.30	ND	50.54		6020.76
MW-23	11/05/22	6071.30	ND	50.30		6021.00
MW-23	05/19/23	6071.30	ND	50.08		6021.22
MW-23	11/11/23	6071.30	ND	50.07		6021.23
MW-23	05/15/24	6071.30	ND	50.09		6021.21
MW-23	11/09/24	6071.30	ND	50.26		6021.04
MW-24	11/05/22	6070.20	ND	50.20		6020.00
MW-24	05/19/23	6070.20	ND	49.91		6020.29
MW-24	11/11/23	6070.20	ND	49.91		6020.29
MW-24	05/15/24	6070.20	ND	49.97		6020.23
MW-24	11/09/24	6070.20	ND	50.17		6020.03
MW-25	11/05/22	6069.28	ND	50.54		6018.74
MW-25	05/19/23	6069.28	ND	50.54		6018.74
MW-25	11/11/23	6069.28	ND	50.61		6018.67
MW-25	05/15/24	6070.28	ND	50.50		6019.78
MW-25	11/09/24	6070.28	ND	50.62		6019.66

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
Groundwater elevation = Top of Casing elevation (TOC, ft) - Depth to Water [ft] + (LPH thickness [ft] x 0.75). A specific gravity of 0.75 is within the range of gas condensate (https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate)

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/16/2021	SAH	SAH	SRV

TITLE
SITE LOCATION

Stantec

PROJECT
JOHNSTON FED #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

FIGURE
1

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2023 MAPS\JFed_#4_SITEMAP_2023.mxd

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- PROPERTY BOUNDARY
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK
- FENCE/GATE

EXISTING SVE SYSTEM

- TRENCH (SHARED)
- TRENCH (UNSHARED)
- 4-INCH UNDERGROUND CONDUIT
- EQUIPMENT PAD AREA

N

SCALE IN FEET

0 25 50

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2024-02-19	SAH	SAH	SRV

TITLE:

SITE PLAN

PROJECT:

JOHNSTON FEDERAL #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2024 MAPS\JFed_#4_GARM_1SA_2024.mxd

SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

MW-4
MW-4
NS

MW-19
B: 20
T: <1.0
E: 1.8
X: 12

MW-19

MW-6
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-6

MW-18
B: 81
T: <1.0
E: 24
X: 160

MW-18

MW-23
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-23

MW-1
NS

MW-1

MW-9
B: 130
T: 9.0
E: 4.8
X: 25

MW-9

MW-20
B: 220
T: 2.9
E: 5.3
X: 40

MW-20

MW-2
NS

MW-2

MW-3
NS

MW-3

MW-7
NS

MW-7

MW-8
NS

MW-8

MW-16
B: 340
T: <2.0
E: 20
X: 34

MW-16

MW-17
B: 75
T: <1.0
E: 22
X: 100

MW-17

MW-10
NS

MW-10

MW-11
NS

MW-11

MW-22
NS

MW-22

MW-25
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-25

MW-13
B: 1.2
T: <1.0
E: <1.0
X: <10

MW-13

MW-15
B: 1200
T: 47
E: 34
X: 230

MW-15

MW-21
NS

MW-21

MW-12
NS

MW-12

MW-14
NS

MW-14

MW-24
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-24

DUP-01
B: <1.0
T: <1.0
E: <1.0
X: <10

AS-4 AS-3 AS-6 AS-5 AS-8 AS-9 AS-10 AS-11 AS-12 AS-13 AS-14 AS-15 AS-16 AS-17 AS-18 AS-19 AS-20 AS-21 AS-22

SVE-1 SVE-2 SVE-3 SVE-4 SVE-5 SVE-6 SVE-7 SVE-8 SVE-9 SVE-10 SVE-11 SVE-12

TW-1 TW-2

TMW-5

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

DUP = FIELD DUPLICATE SAMPLE
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
H = SAMPLE WAS PREPPED AND ANALYZED BEYOND THE SPECIFIED HOLDING TIME.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
< = BELOW METHOD DETECTION LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2024-08-09	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 15, 2024

PROJECT:

JOHNSTON FEDERAL #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **3**

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SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

MW-4 6021.34

MW-19 6021.48

MW-23 6021.21

MW-18 6021.33

MW-6 6021.39

MW-7 6021.28

MW-1 6021.42

MW-3 6021.30

MW-2 6021.31

MW-9 6021.45

MW-20 6021.34

MW-8 6021.27

MW-17 6021.20

MW-10 6021.38

MW-22 6021.11

MW-16 6021.20

MW-11 6021.20

MW-25 6019.78

MW-13 6021.44

MW-15 6021.23

MW-21 6021.09

MW-12 6025.67*

MW-14 6021.46

MW-24 6020.23

AS-3 AS-4 AS-5 AS-6 AS-7 AS-8 AS-9 AS-10 AS-11 AS-12 AS-13 AS-14 AS-15 AS-16 AS-17 AS-18 AS-19 AS-20 AS-21 AS-22

SVE-1 SVE-2 SVE-3 SVE-4 SVE-5 SVE-6 SVE-7 SVE-8 SVE-9 SVE-10 SVE-11 SVE-12

TW-1 TW-2

TMW-5

6021.0 6020.5 6020.0

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

6021.42 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6020.0 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2024-08-09	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 15, 2024

PROJECT:

JOHNSTON FEDERAL #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

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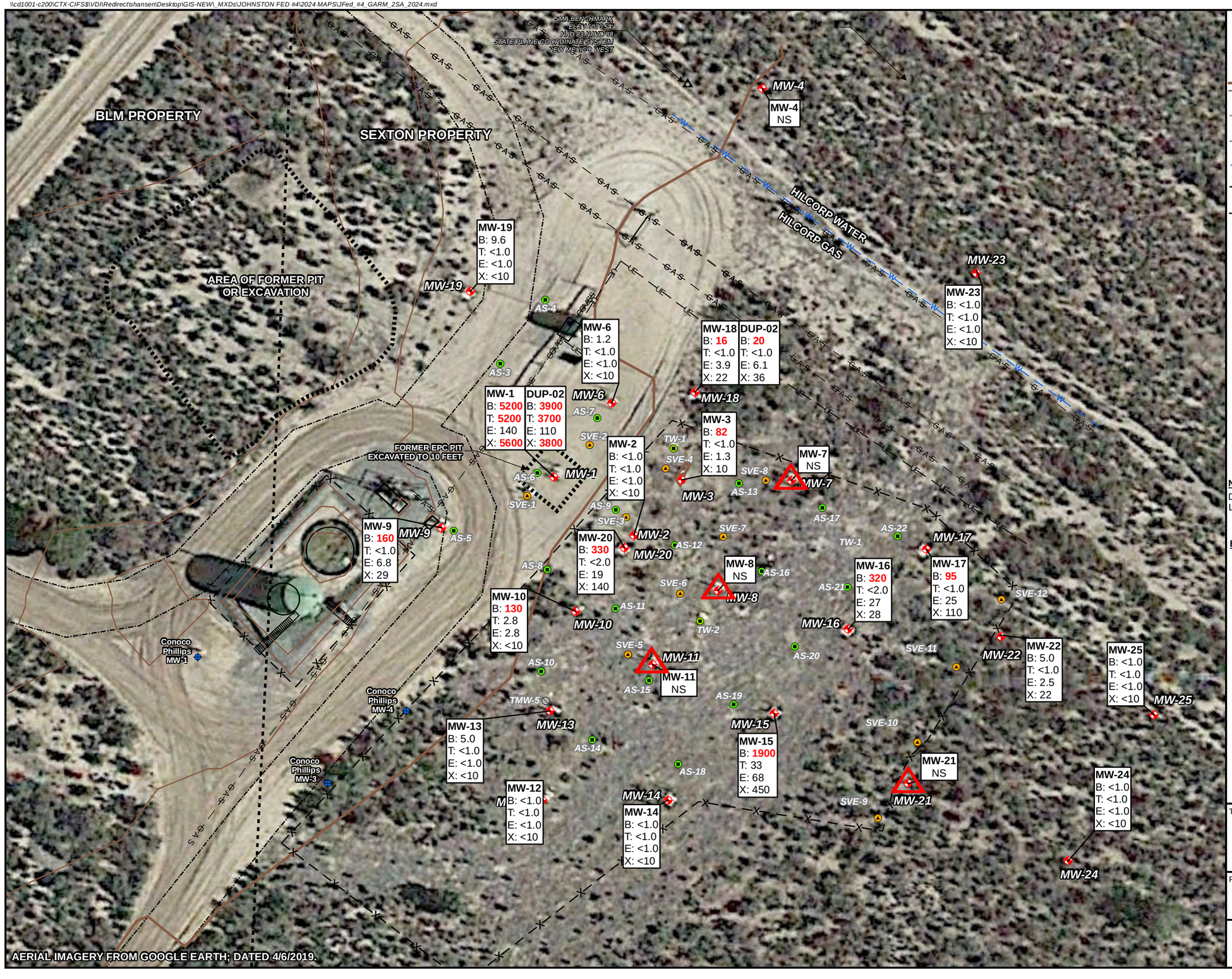

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

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LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

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H = SAMPLE WAS PREPPED AND ANALYZED BEYOND THE SPECIFIED HOLDING TIME.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
< = BELOW METHOD DETECTION LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2025-01-27	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 9, 2024

PROJECT:

JOHNSTON FEDERAL #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **5**

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2024 MAPS\JFed_#4_GECM_2SA_2024.mxd

SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

MW-4 6021.15

MW-19 6021.28

MW-23 6021.04

MW-18 6021.15

MW-6 6021.21

MW-7 6021.09

MW-1 6021.24

MW-3 6021.13

MW-17 6021.01

MW-9 6021.26

MW-2 6021.14

MW-20 6021.17

MW-8 6021.11

MW-10 6021.19

MW-16 6021.02

MW-22 6020.92

MW-11 6021.18

MW-25 6019.66

MW-13 6021.25

MW-15 6021.06

MW-21 6020.94

MW-12 6025.46*

MW-14 6021.27

MW-24 6020.03

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

6021.0

6020.5

6020.0

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

NOTES:

6021.11 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6020.0 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2025-01-28	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 9, 2024

PROJECT:

JOHNSTON FEDERAL #4
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 6

APPENDICES

APPENDIX A

Site History

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

Date	Source (Regulatory File #)	Event/Action	Description /Comments
7/29/1952	30-045-10130	Sundry Notice	Notice of intention to drill.
10/8/1952	30-045-10130	Log of Oil or Gas Well	Total well depth - 5515 feet bgs.
2/13/1953	30-045-10130	Request for (Oil) - (Gas) Allowable	Operator is Anderson-Prichard Oil Corp. Date first oil run to tanks or gas to pipe line 2/2/1953.
2/13/1953	30-045-10130	Certificate of Compliance and Authorization to Transport Oil and Natural Gas	El Paso Natural Gas Company is the authorized transporter.
9/2/1961	30-045-10130	Letter to US Geological Survey	Union Texas Natural Gas Company listed as well owner.
2/24/1992	30-045-10130	Data Sheet for Deep Ground Bed Cathodic Protection Wells	Meridian Oil Inc. shown as operator.
9/16/1995	nAUTOfAB000305	EPFS Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Outlines approach to investigating and remediating soil and groundwater at closed pit sites.
11/29/1995	nAUTOfAB000305	EPFS Addendum to Remediation Plan for Groundwater Encountered During Pit Closure Activities to NMOCD	Amends work plan to include installation of additional wells for delineation, define groundwater sampling parameters, and release closure following four consecutive quarters of results below NMWQCC standards.
11/30/1995	nAUTOfAB000305	NMOCD approval of the Remediation Plan with conditions	Approval of Remediation Plan and Addendum.
7/11/1996	30-045-10130	Sundry Notice	Burlington Resources listed as operator.
6/2/1997	nAUTOfAB000305 (3RP-201)	Semiannual groundwater sampling report (EPFS)	Depth to groundwater 48.9 to 50.4 feet bgs at the Johnston Fed #4 site.

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

8/6/1997	nAUTOfAB000305 (3RP-201)	NMOCD approval letter for the 6/2/1997 Semiannual Groundwater Report (EPFS)	Approval to modify the reporting schedule to annual.
2/27/1998	nAUTOfAB000305 (3RP-201)	Phillip Services 1997 Annual Report (for EPFS)	Summarizes pit closure, MW-1 through MW-3 and temporary well installs, LNAPL recovery activities, groundwater sampling.
7/8/1998	nAUTOfAB000305 (3RP-201)	NMOCD review letter to EPFS for 1997 Annual Report	NMOCD requests EPFS work cooperatively with operators to investigate and remediate contaminated ground water at these sites.
7/9/1998	3RP-71	NMOCD letter to Burlington Resources (BR)	NMOCD requires BR begin implementation of their previously approved pit closure plan.
9/10/1998	3RP-71	NMOCD review letter for BR 8/6/98 Groundwater Investigation Plan	
3/31/1999	nAUTOfAB000305 (3RP-201)	Phillip Services 1998 Annual Report (for EPFS)	LNAPL recovery from MW-1.
7/29/1999	3RP-71	BR letter to NMOCD (included Pit Remediation and Closure Reports)	Soil excavation, pit closures, temp well installations.
3/24/2000	nAUTOfAB000305 (3RP-201)	Phillip Services 1999 Annual Report (for EPFS)	LNAPL recovery and groundwater sampling activities.
3/29/2000	3RP-71	Burlington Resources 1999 Annual Report	Quarterly groundwater monitoring continued through 1999.
2/26/2001	nAUTOfAB000305 (3RP-201)	Phillip Services 2000 Annual Report (for EPFS)	LNAPL monitoring.
3/27/2001	3RP-71	Burlington Resources 2000 Annual Report	Quarterly groundwater monitoring.
7/18/2001	nAUTOfAB000305 (3RP-201)	NMOCD review letter for EPFS 2000 Annual Report	NMOCD requests that EPFS work cooperatively with the operator to investigate and remediate contaminated groundwater.

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

2/28/2002	nAUTOfAB000305 (3RP-201)	MWH 2001 Annual Report (for EPFS)	Quarterly LNAPL recovery. Annual sampling of MW-2 conducted.
2/28/2003	nAUTOfAB000305 (3RP-201)	MWH 2002 Annual Report (for EPFS)	Quarterly LNAPL recovery and annual groundwater sampling.
4/3/2003	nAUTOfAB000305 (3RP-201)	NMOCD review letter for BR 2/28/2003 2002 Annual Report	NMOCD requires EPFS install additional monitoring wells to delineate plume.
4/14/2003	3RP-71	Burlington Resources 2002 Annual Report	Summary of 2000, 2001, and 2002 groundwater sampling.
2/26/2004	nAUTOfAB000305 (3RP-201)	MWH 2003 Annual Report (for EPFS)	Quarterly LNAPL recovery. Annual groundwater sampling.
2/1/2005	nAUTOfAB000305 (3RP-201)	MWH 2004 Annual Report (for EPFS)	Quarterly LNAPL recovery and annual groundwater sampling.
3/31/2005	3RP-71	Burlington Resources 2004 Annual Report	Quarterly groundwater sampling and LNAPL monitoring.
3/2006	nAUTOfAB000305 (3RP-201)	MWH 2005 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater monitoring.
3/2007	nAUTOfAB000305 (3RP-201)	MWH Final 2006 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater sampling.
4/15/2007	3RP-71	Burlington Resources 2006 Annual Report	LNAPL recovery and groundwater sampling.
3/27/2008	3RP-71	Tetra Tech 2007 Annual Report (for ConocoPhillips)	Quarterly groundwater sampling.
4/2/2008	nAUTOfAB000305 (3RP-201)	MWH 2007 Annual Report (for EPTPC)	Installation of MW-4 and TMW-5. Quarterly LNAPL recovery and annual groundwater monitoring.
2/28/2009	nAUTOfAB000305 (3RP-201)	MWH 2008 Annual Report (for EPTPC)	Quarterly LNAPL recovery and annual groundwater monitoring.
12/2009	3RP-71	Tetra Tach 2008 Annual Report (for ConocoPhillips)	Three additional monitoring wells (MW-2, MW-3, and MW-4) installed. Quarterly groundwater sampling.
4/16/2010	nAUTOfAB000305 (3RP-201)	MWH 2009 Annual Report (for EPTPC)	Annual groundwater sampling.
5/2010	3RP-71	Tetra Tech 2009 Annual Report (for ConocoPhillips)	Geologic cross section was included. Annual groundwater monitoring.
3/2/2011	nAUTOfAB000305 (3RP-201)	MWH 2010 Annual Report (for EPTPC)	Annual groundwater sampling.

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

6/9/2011	3RP-71	Tetra Tech 2010 Annual Report (for ConocoPhillips)	Quarterly groundwater sampling.
3/2012	3RP-71	Conestoga-Rovers & Associates September 2011 Annual Report (for ConocoPhillips)	Site consulting transferred from Tetra Tech to CRA. Annual groundwater monitoring.
8/16/2012	nAUTOfAB000305 (3RP-201)	MWH 2011 Annual Report (for EPCGP)	Annual sampling at MW-1 through MW-4, and TMW-5. EPCGP will install a new monitoring well east of MW-3.
2/19/2013	3RP-71	CRA September 2012 Annual Report (for ConocoPhillips)	Annual groundwater monitoring. CRA recommends additional downgradient monitoring well for the purpose of further delineating the Site.
10/22/2013	nAUTOfAB000305 (3RP-201)	MWH 2013 Monitoring Well Installation Workplan (for EPCGP)	Seven monitoring wells will be installed at the Site.
3/4/2014	nAUTOfAB000305 (3RP-201)	MWH 2013 Annual Report (for EPCGP)	Seven new wells (MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12) installed. Soil samples were collected from the borings for MW-6 through MW-12.
3/21/2014	3RP-71	CRA 2013 Annual Report (for ConocoPhillips)	Annual groundwater sampling, MDPE events.
6/9/2014	nAUTOfAB000305 (3RP-201)	MWH 2014 Monitoring Well Installation Work Plan (for EPCGP)	Eight additional monitoring wells will be installed.
2/2/2015	nAUTOfAB000305 (3RP-201)	MWH 2014 Annual Groundwater Report (for EPCGP)	Monitoring wells MW-13 through MW-20 were installed, temporary monitoring well TMW-5 was plugged and abandoned, semi-annual groundwater monitoring.
4/16/2015	3RP-71	CRA 2014 Annual Groundwater Monitoring Report (for ConocoPhillips)	MDPE event, annual groundwater sampling.
2/16/2016	nAUTOfAB000305 (3RP-201)	MWH 2015 Annual Groundwater Report (for EPCGP)	LNAPL monitoring and annual groundwater monitoring, soil boring SB-1 was advanced in the former pit.

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

1/4/2016	3RP-71	GHD Services Inc. 2015 Annual Groundwater Monitoring Report (for ConocoPhillips)	CRA (now GHD) provided oversight for MDPE event conducted from MW-1 from April 20 to April 23, 2015. Annual groundwater monitoring.
3/20/2017	nAUTOfAB000305 (3RP-201)	Stantec 2016 Annual Groundwater Report (for EPCGP)	LNAPL recovery, semi-annual groundwater monitoring, and MDPE event.
1/30/2017	3RP-71	GHD 2016 Annual Groundwater Monitoring Report (for ConocoPhillips)	Annual groundwater monitoring.
6/2/2017	nAUTOfAB000305 (3RP-201)	NMOCD review letter for 2016 Annual Report	Remediation plan requested.
6/29/2017	nAUTOfAB000305 (3RP-201)	Stantec Work Plan for LNAPL Recovery Activates (for EPCGP)	MDPE activities proposed.
7/5/2017	nAUTOfAB000305 (3RP-201)	NMOCD approval letter for the June 29, 2017 Work Plan	MDPE approved.
7/19/2017	nAUTOfAB000305 (3RP-201)	Response letter from EPCGP to NMOCD	No further delineation was planned at this time.
7/21/2017	30-045-10130	Change of Operator Name	New Operator: Hilcorp Energy Company
12/13/2017	3RP-71	GHD 2017 Remediation and Annual Groundwater Monitoring Report (for Hilcorp Energy)	MDPE event conducted, annual groundwater monitoring.
3/28/2018	nAUTOfAB000305 (3RP-201)	Stantec 2017 Annual Groundwater Report (for EPCGP)	MDPE events, LNAPL recovery and semi-annual groundwater monitoring.
6/11/2018	Not in NMOCD files	Stantec AS/SVE Test Work Plan (for EPCGP)	Work plan proposed installing AS and SVE wells and run AS/SVE test.
3/28/2019	Not in NMOCD files	Stantec 2018 Annual Groundwater Report (for EPCGP)	Semi-annual groundwater monitoring, one SVE well and 2 AS test wells installed and feasibility testing completed, LNAPL recovery.

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

4/1/2020	Not in NMOCD files	Stantec 2019 Annual Groundwater Report (for EPCGP)	Semi-annual groundwater monitoring and LNAPL recovery.
4/8/2020	Not in NMOCD files	Stantec Work Plan for Monitoring Wells and AS/SVE Wells (for EPCGP)	Installation of three additional monitoring wells (MW-21 through MW-23), seven additional SVE wells and 20 AS wells proposed.
2/11/2021	nAUTOfAB000306	Hilcorp 2020 Annual Report	Annual groundwater sampling activities associated with Hilcorp release. Report approved by the NMOCD 12/28/2021.
4/8/2021	nAUTOfAB000305	Stantec 2020 Annual Groundwater Report (for EPCGP)	Annual groundwater monitoring, quarterly LNAPL recovery, installation of three monitoring wells (MW-21 through MW-23), seven SVE wells, and twenty AS wells. Report stamped approved 12/29/2021 on OCD website.
5/25/2021	nAUTOfAB000305	Stantec Work Plan for Soil Vapor Extraction and Air Sparge Piping Installation (for EPCGP)	Proposed AS/SVE system elements design and installation. Work plan stamped approved 12/29/2021 on OCD website.
3/4/2022	nAUTOfAB000306	WSP 2021 Annual Report	Annual groundwater sampling activities associated with Hilcorp release. Report approved by the NMOCD 2/6/2023.
3/20/2022	nAUTOfAB000305	Stantec 2021 Annual Groundwater Report (for EPCGP)	Semi-annual groundwater monitoring, quarterly LNAPL recovery. Report stamped received 3/10/2022.
8/19/2022	nAUTOfAB000305	Stantec Work Plan for LNAPL Recovery Activities	CONEX-based solar-powered LNAPL recovery skimmer for MW-21. Report is stamped accepted 5/17/2023 on OCD website.
9/27/2022	nAUTOfAB000305	Stantec Well Installation Activities Work Plan (for EPCGP)	Proposed installation of two additional monitoring wells (MW-24 and MW-25) and four SVE wells. Work plan is stamped accepted 5/17/2023 on OCD website.

Johnston Fed #4
Site History
San Juan River Basin, New Mexico

2/23/2023	nAUTOfAB000306	Ensolum 2022 Annual Report	Annual groundwater sampling activities associated with Hilcorp release. Report approved by the NMOCD 7/27/2023.
3/22/2023	nAUTOfAB000305	Stantec 2022 Annual Groundwater Report (for EPCGP)	Installation on MW-24 and MW-25 and 4 SVE wells; LNAPL skimmer system installation at MW-21, semi-annual groundwater monitoring, quarterly LNAPL recovery. Report stamped reviewed 5/17/2023 on OCD website.
11/22/2023	Not in NMOCD files	Stantec 2023 SVE System Installation Work Plan	Installation and O&M of thermal-oxidizer and SVE system. Report approved by the NMOCD on 2/26/2025.
3/21/2024	nAUTOfAB000305	Stantec 2023 Annual Groundwater Report (for EPCGP)	Semi-annual groundwater monitoring, quarterly LNAPL recovery. Report approved by the NMOCD on 9/4/2024.
3/29/2024	nAUTOfAB000306	Ensolum 2023 Annual Report	Annual groundwater sampling activities associated with Hilcorp release. Report approved by the NMOCD 5/31/2024.

APPENDIX B

NMOCD Notification of Site Activities

From: OCDOnline@state.nm.us
To: Varsa, Steve
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 325358
Date: Thursday, March 21, 2024 2:13:06 AM

To whom it may concern (c/o Stephen Varsa for El Paso Natural Gas Company, L.L.C),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAUTOfAB000305.

The sampling event is expected to take place:

When: 03/27/2024 @ 09:00
Where: H-33-31N-09W 0 FNL 0 FEL (36.862801,-107.771983)

Additional Information: Sean Clary - 918-980-0281. Quarterly LNAPL recovery activities

Additional Instructions: North side of Little Pump Canyon Road, approximately 2 miles west of intersection with Pump Canyon Road.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Varsa, Steve
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: Wiley, Joe; Buchanan, Michael, EMNRD
Subject: FW: El Paso CGP Company - Notice of upcoming groundwater sampling activities (nAUTOfAB000668 - State Gas Com N#1)
Date: Monday, May 13, 2024 7:23:34 AM

Please note the work at the subject location has been rescheduled for May 19, 2024. For the remaining sites below, note the correct year is 2024, not 2023.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
Sent: Tuesday, May 7, 2024 4:34 PM
To: 'OCD.ENVIRO@EMNRD.NM.GOV' <OCD.ENVIRO@EMNRD.NM.GOV>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>; Wiley, Joe <Joe_Wiley@kindermorgan.com>
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities

Pursuant to El Paso CGP's Groundwater Remediation Plan, this correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	5/15/2023
Fields A#7A	nAUTOfAB000176	5/17/2023
Fogelson 4-1	nAUTOfAB000192	5/14/2023
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/14/2023
GCU Com A #142E	nAUTOfAB000219	5/13/2023
James F. Bell #1E	nAUTOfAB000291	5/14/2023
Johnston Fed #4	nAUTOfAB000305	5/15/2023
Johnston Fed #6A	nAUTOfAB000309	5/15/2023
K27 LDO72	nAUTOfAB000316	5/16/2023
Knight #1	nAUTOfAB000324	5/14/2023
Lateral L 40 Line Drip	nAUTOfAB000335	5/17/2023
Sandoval GC A #1A	nAUTOfAB000635	5/15/2023
Standard Oil Com #1	nAUTOfAB000666	5/16/2023
State Gas Com N #1	nAUTOfAB000668	5/13/2023

Quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) are to occur on Monday, May 13, 2024.

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Wells, Shelly, EMNRD
To: Varsa, Steve
Cc: Buchanan, Michael, EMNRD; Bratcher, Michael, EMNRD; Wiley, Joe
Subject: RE: [EXTERNAL] Johnston Federal #4 (nAUTOfAB000305) - notice of upcoming activities
Date: Tuesday, July 16, 2024 9:57:11 AM

Thank you Steve! Your notice has been received and noted under the incident events in Permitting.

Kind regards,

Shelly

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

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Tuesday, July 16, 2024 7:39 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wiley, Joe <joe_wiley@kindermorgan.com>
Subject: [EXTERNAL] Johnston Federal #4 (nAUTOfAB000305) - notice of upcoming activities

This correspondence is to provide notice the solar-powered LNAPL skimmer system currently deployed at the subject location is being removed on Friday, July 19, 2024, for use at another location. Let me know if you have any questions.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: Buchanan, Michael, EMNRD; Bratcher, Michael, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming third calendar quarter 2024 site activities
Date: Wednesday, August 21, 2024 9:43:54 AM

This correspondence is to provide notice to the NMOCD of upcoming light nonaqueous-phase liquid (LNAPL) monitoring and recovery activities at the following El Paso CGP Company (EPCGP) project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	8/29/2024
Fields A#7A	nAUTOfAB000176	8/27/2024
Gallegos Canyon Unit #124E	nAUTOfAB000205	8/28/2024
Johnston Fed #4	nAUTOfAB000305	8/30/2024
Johnston Fed #6A	nAUTOfAB000309	8/30/2024
K27 LDO72	nAUTOfAB000316	8/29/2024
Knight #1	nAUTOfAB000324	8/28/2024
State Gas Com N #1	nAUTOfAB000668	8/26/2024

Quarterly groundwater sampling at the Gallegos Canyon Unit #124E and Johnston Federal #6A locations are also to be done concurrent to the LNAPL monitoring and recovery events.

Quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) are to occur on Tuesday and Wednesday, August 27 and 28, 2024.

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: Buchanan, Michael, EMNRD; Bratcher, Michael, EMNRD; Wiley, Joe
Subject: nAUTOfAB000305 - Johnston Federal #4 - notice of upcoming activities
Date: Friday, October 4, 2024 8:28:35 PM

On behalf of El Paso CGP Company (EPCGP), this correspondence is to provide notice the soil vapor extraction system at the subject site will be installed, tested and started on or after October 9, 2024, pursuant to the work plan submitted in November 2023. Follow-up correspondence will be provided if there is a significant delay with system startup.

Please feel free to contact Mr. Joseph Wiley, Remediation Manager for EPCGP, or me, if you have any questions.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: Buchanan, Michael, EMNRD; Bratcher, Michael, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Monday, October 28, 2024 11:07:52 AM

Pursuant to El Paso CGP's Groundwater Remediation Plan, this correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/9/2024
Fields A#7A	nAUTOfAB000176	11/8/2024
Fogelson 4-1	nAUTOfAB000192	11/5/2024
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/9/2024
GCU Com A #142E	nAUTOfAB000219	11/7/2024
James F. Bell #1E	nAUTOfAB000291	11/7/2024
Johnston Fed #4	nAUTOfAB000305	11/8/2024
Johnston Fed #6A	nAUTOfAB000309	11/8/2024
K27 LDO72	nAUTOfAB000316	11/9/2024
Knight #1	nAUTOfAB000324	11/5/2024
Lateral L 40 Line Drip	nAUTOfAB000335	11/10/2024
Sandoval GC A #1A	nAUTOfAB000635	11/8/2024
Standard Oil Com #1	nAUTOfAB000666	11/9/2024
State Gas Com N #1	nAUTOfAB000668	11/6/2024

Quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) are to occur on Monday and Tuesday, November 4 and 5, 2024.

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From:	Varsa, Steve
To:	Buchanan, Michael, EMNRD
Cc:	Wiley, Joe; OCD.ENVIRO@EMNRD.NM.GOV; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] FW: nAUTOfAB000305 - Johnston Federal #4 - notice of upcoming activities
Date:	Friday, December 6, 2024 8:05:48 AM

Hi Michael – we are planning to return to the subject site to reinstall the generator with the goal of starting the system on Wednesday, December 11, 2024.

Thank you,
Steve

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, October 23, 2024 11:55 AM
To: Varsa, Steve <steve.varsa@stantec.com>
Cc: Wiley, Joe <Joe_Wiley@kindermorgan.com>
Subject: RE: [EXTERNAL] FW: nAUTOfAB000305 - Johnston Federal #4 - notice of upcoming activities

Thanks, Steve.

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Tuesday, October 22, 2024 11:39 PM
To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Cc: Wiley, Joe <Joe_Wiley@kindermorgan.com>
Subject: [EXTERNAL] FW: nAUTOfAB000305 - Johnston Federal #4 - notice of upcoming activities

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

Hi Michael – we were unable to start the SVE system at the subject site due to issues with the generator. The generator has been removed from the Site and is being sent back to the factory for repairs. I'll follow-up once the generator has been fixed and returned, and the SVE system is ready for start.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Varsa, Steve <steve.varsa@stantec.com>

Sent: Friday, October 4, 2024 8:29 PM
To: OCD.ENVIRO@EMNRD.NM.GOV
Cc: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wiley, Joe <Joe_Wiley@kindermorgan.com>
Subject: nAUTOfAB000305 - Johnston Federal #4 - notice of upcoming activities

On behalf of El Paso CGP Company (EPCGP), this correspondence is to provide notice the soil vapor extraction system at the subject site will be installed, tested and started on or after October 9, 2024, pursuant to the work plan submitted in November 2023. Follow-up correspondence will be provided if there is a significant delay with system startup.

Please feel free to contact Mr. Joseph Wiley, Remediation Manager for EPCGP, or me, if you have any questions.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX C

Daily Field Reports

DAILY FIELD REPORT
Thermox SVE System Installation and Startup

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 10/7/24 Monday
WEATHER: sunny, clear. 50F to 87F
PROJECT No.: 193710672

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Sean Clary, Stantec, engineer
Carl Lehman, Stantec, engineer
Steve Varsa, Stantec, project manager
Jeremy Valdez, Sierra Oilfield Services, crane operator
Alejandro Murillo, Sierra, operator
Steve Victor, Sierra, operator

VISITORS (name, company)

Kenny Rahm and Konnor Smartt (Taft Electric)
Drivers (Sierra)

CONSTRUCTION EQUIPMENT (type, model)

Crane, National NBT45 (Sierra)
Telehandler, SkyTrax (United Rentals)

TASKS PERFORMED

Loaded and transported CONEX box from Sierra Lake St yard (CONEX contained double-walled water tank for SVE condensate).
Loaded and transported natural gas generator from Sierra Dustin yard and set on-site.
Transported thermox skid from Rio Vista Compressor Station.
Prepped system compound area (cut and capped excess loose pipe on AS lines, removed vegetation and some fencing and raked/leveled gravel on equipment staging areas).
Setup secondary containment pad and protective HPDE mat before setting thermox and mounting stack.
Unloaded gas line and SVE manifold pipe, meters, fittings, supplies, and tools to store in on-site CONEX
Setup RING camera for security

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

Sierra used a flatbed truck for CONEX, and semi-trucks for skid and telehandler. Pickup with gooseneck trailer brought the generator later in the day.
Themrox combustion blower was shaken loose and lightly damaged during transport to site. We will work on inspection and repair before startup

NEXT DAY'S PLANNED ACTIVITIES

Sierra to assemble and install gas line, metering and valves to generator and thermox, and test connections
Assemble and install SVE manifold and header
Taft to install conduit and wire from generator to skid
Install water containment tank and transfer pump piping
Layout fencing perimeter and gates

PREPARED BY: Carl Lehman

REVIEWED BY: Steve Varsa

DAILY FIELD REPORT
Thermox SVE System Installation and Startup

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 10/8/24 Tuesday
WEATHER: sunny, clear. 44F to 85F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Sean Clary, Stantec, engineer
Carl Lehman, Stantec, engineer
Steve Varsa, Stantec, project manager
David Frank, Sierra Oilfield Services, pipe fitter/foreman
Timothy Yazzie, Sierra, operator
Eric Begay, Sierra, operator
Kenny Rahm, Taft Electric, electrician
Konnor Smartt, Taft Electric, electrician assisstant

VISITORS (name, company)

Matt Padilla, Taft electric
Aaron, Enterprise (utility locating)
Tammy, CCI/Hilcorp (utility locating)
Gabriel, Seranno's (Portable toilet delivery)
Allen Oldham, Pumps and Service
Nick, Sierra (deliveries)

CONSTRUCTION EQUIPMENT (type, model)

Telehandler, SkyTrax (United Rentals)
Ingersoll Rand mobile generator/compressor

TASKS PERFORMED

Begin to assemble and install gas line and valves to generator and thermox
Assembled and installed horizontal supports for SVE manifold
Taft installed conduit and wire from generator to skid
Install water containment tank and conduit to tank for level switch
Layout fencing perimeter and gates

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

Combustion blower spins freely and can be adusted to sit in the proper orientation on the intake. Northstar will inspect tomorrow and make additional direction on needed adiustment
Gas line assembly was delayed due to sizing discrepancy on gas meters. Decision made to use 1-1/2" pipe for piping runs downstream of regulators

NEXT DAY'S PLANNED ACTIVITIES

Install transfer pump piping to tank
Finish gas line assembly (meters and equipment connections)
Install catalytic converter on generator effluent
Finish tie-in to Hilcorp meter run and turn on gas supply
Pump and Service to be on-site for start-up of generator
Northstar to be onsite for skid testing and begin startup procedure

PREPARED BY: Carl Lehman

REVIEWED BY: Steve Varsa

DAILY FIELD REPORT
Thermox SVE System Installation and Startup

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 10/9/24 Wednesday
WEATHER: sunny, clear. 50F to 85F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Sean Clary, Stantec, engineer
Carl Lehman, Stantec, engineer
Steve Varsa, Stantec, project manager
David Frank, Sierra Oilfield Services, pipe fitter/foreman
Timothy Yazzie, Sierra, operator
Eric Begay, Sierra, operator
Kenny Rahm, Taft Electric, electrician
Konnor Smartt, Taft Electric, electrician assisstant
Colin Kreller, NorthStar Remediation, thermox contractor
Daniel Candaux, Northstar-HTS, thermox/burner contractor
Josh Brashear, Pumps and Service, generator technician
Jeremy Lorkins, Pumps and Service, generator technician

VISITORS (name, company)

None

CONSTRUCTION EQUIPMENT (type, model)

Telehandler, SkyTrax (United Rentals)

TASKS PERFORMED

Completed assembly and install of gas line and valves to generator and thermox
Assembled and installed SVE manifold on vertical and horizontal strut support
Connected SVE manifold to thermox skid with PVC header
Install PVC pipe from KO transfer pump to external tank
Plan fencing perimeter and gate layout, discuss installation with Sierra
Generator pre hookup inspection
Repaired thermox combustion blower

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

Northstar inspected the damaged combustion blower and discovered a coupling on the motor had broken. A local machine shop was able to repair the coupling and it was reinstalled and spun by hand to confirm function.
The Pumps and Service technicians discovered water in the generator engine during prehookup inspection. The freeze plugs had popped out, presumably from the water in the engine expanding during a freeze last winter. Pictures and a summary of findings were emailed to El Paso CGP Company to contact vendor about warranty or repair.

NEXT DAY'S PLANNED ACTIVITIES

Finish tie-in to Hilcorp meter run and turn on gas supply
Deliver and utilize mobile rental generator to test the thermox skid. This will allow adjustment of gas line and burner train components to the Hilcorp gas supply.
Install fence posts using skid steer and auger. Post holes near the buried HDPE SVE and AS lines will be hand cleared to prevent line strikes.
Connect SVE wells to manifold with suction hose and camlock fittings

PREPARED BY: Carl Lehman

REVIEWED BY: Steve Varsa

DAILY FIELD REPORT
Thermox SVE System Installation and Startup

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 10/10/24 Thursday
WEATHER: sunny, clear. 50F to 85F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Sean Clary, Stantec, engineer
Carl Lehman, Stantec, engineer
Steve Varsa, Stantec, project manager
David Frank, Sierra Oilfield Services, pipe fitter/foreman
Eric Begay, Sierra, operator
Dhurgham Chekhyor, Sierra, operator
Colin Kreller, NorthStar Remediation, thermox contractor
Daniel Candaux, Northstar-HTS, thermox/burner contractor

VISITORS (name, company)

Nick, Sierra

CONSTRUCTION EQUIPMENT (type, model)

Telehandler, SkyTrax (United Rentals)
Skid Steer, Bobcat S64 (Rental) with post hole auger
Generator, MQ Power 70kW (Wagner Rental)

TASKS PERFORMED

Finished tie-in to Hilcorp meter run and turned on gas supply
Sierra deliver a mobile rental generator to test the thermox skid.
Utilized rental generator to power the thermox skid. The burner train was adjusted for the Hilcorp natural gas supply
Sierra began installing fence posts using skid steer auger and hand tools.
Connected SVE wells to manifold with suction hose and camlock fittings
Tested thermox skid alarms and shutdowns
Connected to well SVE-1 and tested to evaluate thermox temperature response to variable concentrations.
Shutdown thermox and disconnected elecrical power.

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

During testing of themox skid components, Northstar discovered two malfunctioning actuators- the combustion blower motor actuator and the dilution air modulating valve actuator. Northstar troubleshot the components with remote help from the programmer that designed the control system. Both component issues were resolved. Prior to startup though, the dilution air valve actuator will need a new control rod to connect to the SVE manifold valve.
During installation of a pressure gauge on the gas line to monitor equipment supply pressure, threads on the pressure relief valve were stripped. A new PRV will be acquired for installation.
Slatted chain link fencing is on backorder. Sierra is to install chain link panels and barbed wire to temporaily secure site.

NEXT DAY'S PLANNED ACTIVITIES

Continue installing fence posts with skid steer and auger. Post holes near the buried HDPE SVE and AS lines will be hand cleared to prevent line strikes.
Install temporary fence panels for site security until privacy fence is fully installed.
Disconnect generator gas line and meter and plug/cap the piping.
Close the valve on the gas supply line near the Hilcorp meter run and lock out and tag out since gas won't be needed until generator issues are resolved.
Pending direction from EPCGP, remove the generator using crane and transport to Pumps and Service shop for diagnosis.
Develop list of remaining punch-list items.
Demobilization of equipment and personnel.

PREPARED BY: Carl Lehman

REVIEWED BY: Steve Varsa

DAILY FIELD REPORT
Thermox SVE System Installation and Startup

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 10/11/24 Friday
WEATHER: sunny, clear. 50F to 87F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Sean Clary, Stantec, engineer
Carl Lehman, Stantec, engineer
Steve Varsa, Stantec, project manager
David Frank, Sierra Oilfield Services, pipe fitter/foreman
Eric Begay, Sierra, operator
DJ, Sierra, operator
Nathan Harris, Sierra, laborer
Charley Mobley, Sierra, laborer
Jeremy Valdez, Sierra, crane operator

VISITORS (name, company)

Truck drivers, Sierra

CONSTRUCTION EQUIPMENT (type, model)

Telehandler, SkyTrax (United Rentals)
Skid Steer, Bobcat S64 (Rental) with post hole auger
Crane, National MDT45

TASKS PERFORMED

Closed Hilcorp gas supply run, purged and locked-out EPCGP supply line, and contacted Hilcorp (Nate Velasquez) to discuss period of no use.
Disconnected gas line from generator, removed generator gas meter, and capped and locked out valves.
Sierra removed the Arrow generator using a crane for transport back the their storage yard.
Sierra finished installing fence posts using skid steer auger and hand tools.
Sierra installed 12-ft temporary fence panels secured to fence posts and t-posts
Finished connecting SVE wells to manifold with suction hose and camlock fittings
Installed 55-gal poly secondary containment drum around gas line separator and labeled
Installed (2) 100W solar panels on roof of CONEX and connected to a charge system to power Ring cameras for site security
Moved 5 Jersey barriers around the west corner of fenced remediation compound
Organized materials and secured CONEX, and secured site.

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

Sierra transported the generator back to the Dustin storage yard. Potential diagnosis and repair will be coordinated with Sierra and Pumps and Service. The location of the generator onsite was marked so that when the generator is brought back to the site, it can be placed in the same spot for gas line and elecrical connections.

NEXT DAY'S PLANNED ACTIVITIES

None. Sierra to remove Telehandler and portable toilet from site on 10/14/24. No further onsite activities planned until generator path forward is determined.

PREPARED BY: Carl Lehman

REVIEWED BY: Steve Varsa

Stantec

DAILY FIELD REPORT
Reinstall Generator and Startup (SVE)

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 12/10/24 Tuesday
WEATHER: clear, windy, 19 to 37 F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Carl Lehman, Stantec, project oversight
Sean Clary, Stantec, project oversight
Seth Stradling, Sierra, Operator
Miles KeeTuley, Sierra, laborer
MI Tsusli, Sierra, laborer
Joshua Brashear, Pumps and Services, Generator Technician

VISITORS (name, company)

none.

CONSTRUCTION EQUIPMENT (type, model)

2892C 28-ton crane
Support vehicles

TASKS PERFORMED

Daily Health and Safety Meeting, discuss general project logistics
Site inspection and bird nest survey completed
Transport and crane generator into place, reconnect gas line and wires, troubleshoot and start
Purchase and install starter battery for generator; replace diaphram in generator for use with natural gas
Add pipe support to overhead gas line and pressure relief valve lift/vent pipe
Start up thermox
Test and install heat tape and begin installing insulation and aluminum tape
Drill all holes for instrumentation, begin tapping and install gauges, pitot tubes, and sample ports

Lengths of Trenching/Piping/Fencing (linear feet)

TYPE	BID AMOUNT	DAILY NUMBER	UNIT / OTHER	CUMULATIVE TOTALS	Percent of Project Scope of Work/Bid
Fencing	200 (LS)	0	foot	0	0%

Note: LS = Lump Sum Total Amount

LOADS of MATERIAL TRANSPORTED

TYPE	BID AMOUNT	DAILY NUMBER	UNIT / OTHER	CUMULATIVE TOTALS	DESTINATION/SOURCE
None					

Note: CO = Not included in Bid Amount and Subject to Change Order

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

Much of solar equipment for modifications has yet to be delivered.
Fencing to start 12/11/2024
Thermox starts and reaches temp, SVE blower does not start when thermox is at temp (in auto on HOA switch) - will reach out to Northstar.

NEXT DAY'S PLANNED ACTIVITIES

Install fencing (Sierra)
Continue installing pipe insulation (Stantec)
Finish tapping and installing instrumentation for SVE legs
Troubleshoot SVE blower

PREPARED BY: Sean Clary

REVIEWED BY: Steve Varsa

Stantec

DAILY FIELD REPORT
Reinstall Generator and Startup (SVE)

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 12/11/24 Wednesday
WEATHER: clear, 15 to 40 F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Carl Lehman, Stantec, project oversight
Sean Clary, Stantec, project oversight
Miles KeeTuley, Sierra, laborer
MI Tsusli, Sierra, laborer
Andrew Worely, Sierra, laborer

VISITORS (name, company)

none.

CONSTRUCTION EQUIPMENT (type, model)

Support vehicles and trailer

TASKS PERFORMED

Acquired multimeter for troubleshooting panel
Daily Health and Safety Meetings, discuss general project logistics
Sierra start working on replacing temporary fencing panels with privacy fencing
Stantec finish tapping and installing pitot tubes/sample ports, etc.
Continue to troubleshoot SVE blower issue
Finish insulating heat trace wire
Swapped battery on existing solar equipment
Acquired compression fittings for pitot tubes and other supplies

Lengths of Trenching/Piping/Fencing (linear feet)

TYPE	BID AMOUNT	DAILY NUMBER	UNIT / OTHER	CUMULATIVE TOTALS	Percent of Project Scope of Work/Bid
Fencing	200 (LS)	60	foot	60	30%

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

Much of solar equipment for modifications has yet to be delivered.
Sierra to pick up additional brackets needed to finish fencing tomorrow. 30-40 percent of the fence is up, barbed wire still needs to be run across the top, as well as gate installation.
Thermox starts and reaches temp, SVE blower does not start when thermox is at temp (in auto on HOA switch) - continued troubleshooting. Northstar reccomends talking to manufacturer's tech support in AM (line opens at 7:00AM). The issue identified is that the VFD (soft starter) on the SVE blower is giving a OVA (over voltage during acceleration) code. Also consulting with Stantec electrical engineer on recommendations.

NEXT DAY'S PLANNED ACTIVITIES

Troubleshoot SVE blower/VFD with phone support from vendor (Stantec)
Continue installing fencing (Sierra)
Complete updated site survey of system compiund area (SMA)
Shakedown with Seth Stradling and Jeremy Valdez (Sierra) in afternoon if system is running.

PREPARED BY: Sean Clary

REVIEWED BY: Steve Varsa

Stantec

DAILY FIELD REPORT
Reinstall Generator and Startup (SVE)

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 12/12/24 Thursday
WEATHER: clear, breezy, 27 to 37 F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Carl Lehman, Stantec, project oversight
Sean Clary, Stantec, project oversight
Miles KeeTuley, Sierra, laborer
Andrew Worely, Sierra, laborer
Herb Curley, Sierra, Laborer
Jace Pinto, Sierra, Laborer
Kyle Gardner, Sierra, Laborer

VISITORS (name, company)

Justin Mackey, Sierra, Rental Generator Hauler (not performing work)

CONSTRUCTION EQUIPMENT (type, model)

125kW, 3-ph, 480V, diesel generator
Support trucks and trailer

TASKS PERFORMED

Troubleshooting VFD error codes with manufacturer and Stantec resources
Sierra continues to install fencing and gates
Acquired and tested SVE system with diesel generator
Set RING cameras to cover site adequately
Finished pipe insulation
Coordinate with Pumps and Services to discuss load testing of NG generator.

Lengths of Trenching/Piping/Fencing (linear feet)

TYPE	BID AMOUNT	DAILY NUMBER	UNIT / OTHER	CUMULATIVE TOTALS	Percent of Project Scope of Work/Bid
Fencing	200 (LS)	120	foot	180	90%

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

System runs properly with diesel generator, VFD appears to be in good working order. Stantec to follow up with internal review and potential load testing by Pumps and Services. Inquiry also made with generator manufacturer as to whether generator was load-tested at the shop.
Sierra nearly done installing fencing, must install barbed wire on top.
Stantec noticed oil in NG generator enclosure after running in AM. No oil reached the ground, the drip area cleaned up, and a pan was placed beneth this area to capture any future dripping. Discuss whether this is normal with Pumps and Services (generator recently serviced/rebuilt). Inquiry also made with generator manufacturer.
SMA delayed and to complete survey on Friday morning.

NEXT DAY'S PLANNED ACTIVITIES

Finish installing fencing components (Sierra)
Conduct site survey (SMA)
Secure site and demobilize

PREPARED BY: Sean Clary

REVIEWED BY: Steve Varsa

Stantec

DAILY FIELD REPORT
Reinstall Generator and Startup (SVE)

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 12/13/24 Friday
WEATHER: cloudy, breezy, 22 to 35 F
PROJECT No.: 193710847

Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)

Carl Lehman, Stantec, project oversight
Sean Clary, Stantec, project oversight
Miles KeeTuley, Sierra, laborer
Andrew Worely, Sierra, laborer
Herb Curley, Sierra, Laborer
Jace Pinto, Sierra, Laborer
Will Tsosie, Sierra, Laborer
Isaiah Vigil, SMA, surveyor
Elijah Carney, SMA, surveyor assistant

VISITORS (name, company)

none

CONSTRUCTION EQUIPMENT (type, model)

Support trucks and trailer

TASKS PERFORMED

Sierra continues to install barbed wire on fencing and gates
Sierra tightens wire fencing around minefield
SMA surveys equipment, compound, fence

Lengths of Trenching/Piping/Fencing (linear feet)

TYPE	BID AMOUNT	DAILY NUMBER	UNIT / OTHER	CUMULATIVE TOTALS	Percent of Project Scope of Work/Bid
Fencing	200 (LS)	20	foot	200	100%

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)

System runs properly with diesel generator, VFD appears to be in good working order. Stantec to follow up with internal review and potential load testing by Pumps and Services. Inquiry also made with generator manufacturer as to whether generator was load-tested at the shop.
Sierra completed fencing around the remediation equipment and installing barbed wire on top. Sierra completed tigtening the exisitng wire fence around the monitoring and remediation wells
Stantec demobilized from the project area and will return in 2025 to complete system startup

NEXT DAY'S PLANNED ACTIVITIES

N/A

PREPARED BY: Carl Lehman

REVIEWED BY: Steve Varsa

APPENDIX D

Photographic Log

Stantec

Photographic Log

Client:	**El Paso GCP Company**	**Project:**	**Reinstall Generator and Startup (SVE)**
Site Name:	**Johnston Federal #4**	**Site Location:**	**San Juan Rier Basin, NM**

Photograph ID: 1 **Photo Location:** Johnston Federal #4 Site **Direction:** N/A **Survey Date:** 10/8/2024 **Comments:** Photograph shows wiring stub up from generator to thermox control panel. Also visible is secondary containment and anti-slip mats for personnel.	
Photograph ID: 2 **Photo Location:** Johnston Federal #4 Site **Direction:** N/A **Survey Date:** 10/9/2024 **Comments:** Photograph shows gas line connection from wellhead operations to natural gas generator. Gas meter is visible in the foreground and pressure relief piping and regulator visible in background.	

Stantec

Photographic Log

Client:	**El Paso GCP Company**	**Project:**	**Reinstall Generator and Startup (SVE)**
Site Name:	**Johnston Federal #4**	**Site Location:**	**San Juan Rier Basin, NM**

Photograph ID: 3

Photo Location:
Johnston Federal #4 Site

Direction:
North-Northeast

Survey Date:
10/11/2024

Comments:
Photograph shows the secured locaiton after removing the generator for repairs.

Photograph ID: 4

Photo Location:
Johnston Federal #4 Site

Direction:
South-Southwest

Survey Date:
12/11/2024

Comments:
Photograph shows SVE manifold and instrumentation.

Stantec

Photographic Log

Client:	**El Paso GCP Company**	**Project:**	**Reinstall Generator and Startup (SVE)**
Site Name:	**Johnston Federal #4**	**Site Location:**	**San Juan Rier Basin, NM**

Photograph ID: 5

Photo Location:
Johnston Federal #4 Site

Direction:
North-Northeast

Survey Date:
12/12/2024

Comments:
Photograph shows insulated heat tape installed on conveyance line between primary knockout tank on thermox and double walled tank for accumulation of condensate.

Photograph ID: 6

Photo Location:
Johnston Federal #4 Site

Direction:
East-Northeast

Survey Date:
12/13/2024

Comments:
Photograph shows security/privacy fence panel and signage with contact information.

APPENDIX E

Waste Disposal Documentation

envirotech

Bill of Lading

MANIFEST # 84305
GENERATOR El Paso
POINT OF ORIGIN Johnston Fed. #4
TRANSPORTER Sierra
DATE 03/27/24 JOB # 97029-0003

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Tank bottoms			1			45	1320	
					5					
								Bill Sykes Min		

RESULTS		
-281	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Cory Kolman

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

ENTERED MAR 29 2024

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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envirotech

BOL# 84305

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 03/27/24 TIME 1320

Attach test strip here

CUSTOMER El Paso

SITE Johnston Fed #4

DRIVER

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1320 Time completed 1330

PASS YES X NO _____

SAMPLER/ANALYST

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 84352
GENERATOR El Paso
POINT OF ORIGIN See C-138 For list
TRANSPORTER Envirotech
DATE 03/29/24 JOB # 14073-0090

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Tank bottoms groundwater			1	-	-	983	1000	[signature]
					1					

RESULTS			LANDFARM EMPLOYEE	NOTES
-701	CHLORIDE TEST	1	Cory Robinson	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST		By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.	
PASS	PAINT FILTER TEST	1		

Generator Onsite Contact _____ Phone _____

ENTERED APR 02 2024

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BOL# 84352

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 03/29/24 TIME 1000

CUSTOMER El Paso

SITE See the C-138 For List

DRIVER Austin Foutz

SAMPLE Soil Straight ____ With Dirt X

CHLORIDE TEST - 281 mg/Kg

ACCEPTED YES X NO ____

PAINT FILTER TEST Time started 1000 Time completed 1012

PASS YES ✓ NO ____

SAMPLER/ANALYST Cory Robinson

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 85181
GENERATOR El Paso Pit Sites
POINT OF ORIGIN See C-138 For Location
TRANSPORTER Envirotech
DATE 05/21/24 JOB # 14073-0090

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Tankbottom			1	—	—	998	0945	
					1					

RESULTS			LANDFARM EMPLOYEE	NOTES
434	CHLORIDE TEST	1	Cory Robinson	Pit Sites
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

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BOL# 85181

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05/21/24 TIME 0945

CUSTOMER El Paso

SITE Sec C-138 For Johnston Fed 4

DRIVER

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 434 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 0945 Time completed 0959

PASS YES X NO _____

SAMPLER/ANALYST

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 87101
GENERATOR ELPASO EL PASO PIT SITES
POINT OF ORIGIN Lateral L-40
TRANSPORTER Envirotech
DATE 08/30/24 JOB # 14073-0095 0090

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Cont Liquid			1			998	1500	
					1					

RESULTS			LANDFARM EMPLOYEE	NOTES
-274	CHLORIDE TEST	1		
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

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BOL# 87101

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 08/30/24 TIME 1500

CUSTOMER El Paso

SITE Lateral L 40

DRIVER [signature]

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 274 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1500 Time completed 1511

PASS YES X NO _____

SAMPLER/ANALYST [signature]

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

Envirotech Inv 66775 on 11/14/24

envirotech

Bill of Lading

MANIFEST # 88384

GENERATOR ElPaso see list below

POINT OF ORIGIN ~~Rio Vista Comp Station~~

TRANSPORTER ETech

DATE 11/15/24 JOB # 14073-0090

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Tank Bottoms			1	-		998	11:00	
					1					
				Point of Origin			Blanco Gas Plant - North Flare Pit Blanco Gas Plant - South Flare Pit San Juan River Gas Plant			
						14	NEW MEXICO PITS SITES			
							- Johnston Federal #4 - Johnston Federal #6A - Sandoval GC A #1A - Canada Mesa #2 - K-27 LOO72 - Standard Oil Com #1 - Gallegos Canyon Unit #124E - State Gas Com N #1		- Knight #1 - Lat L40 - James F Bell #1E - GCU Com A #142E - Fields A #7A - Fogelson 4-1	

RESULTS			LANDFARM EMPLOYEE	NOTES
400	CHLORIDE TEST	1	Cory Robinson	Kinder Morgan / ELPaso
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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BOL# 88384

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11/15/24 TIME 11:00 Attach test strip here

CUSTOMER El Paso

SITE ~~Rio Vista Comp Station~~ SEE LIST PW See BOL for List

DRIVER

SAMPLE Soil Straight _____ With Dirt X

CHLORIDE TEST 400 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 11:00 Time completed 11:10

PASS YES X NO _____

SAMPLER/ANALYST

5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

APPENDIX F

Groundwater Analytical Lab Reports

Stantec

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Varsa
Stantec Consulting Services, Inc.
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

Generated 5/31/2024 9:00:14 PM

JOB DESCRIPTION

Johnston Federal #4.00

JOB NUMBER

400-256233-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

my EOL

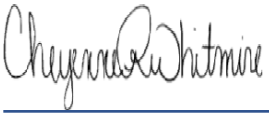
Eurofins Pensacola

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
5/31/2024 9:00:14 PM

Authorized for release by
Cheyenne Whitmire, Senior Project Manager
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Laboratory Job ID: 400-256233-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project: Johnston Federal #4.00

Job ID: 400-256233-1 Eurofins Pensacola

Job Narrative
400-256233-1

Receipt
The samples were received on 5/18/2024 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-15 (400-256233-6), MW-16 (400-256233-7) and MW-20 (400-256233-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: TB-01 Lab Sample ID: 400-256233-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-256233-2

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-256233-3

No Detections.

Client Sample ID: MW-9 Lab Sample ID: 400-256233-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	4.8		1.0		ug/L	1		8260D	Total/NA
Toluene	9.0		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	25		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-13 Lab Sample ID: 400-256233-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-15 Lab Sample ID: 400-256233-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		10		ug/L	10		8260D	Total/NA
Ethylbenzene	34		10		ug/L	10		8260D	Total/NA
Toluene	47		10		ug/L	10		8260D	Total/NA
Xylenes, Total	230		100		ug/L	10		8260D	Total/NA

Client Sample ID: MW-16 Lab Sample ID: 400-256233-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	340		2.0		ug/L	2		8260D	Total/NA
Ethylbenzene	20		2.0		ug/L	2		8260D	Total/NA
Xylenes, Total	34		20		ug/L	2		8260D	Total/NA

Client Sample ID: MW-17 Lab Sample ID: 400-256233-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	75		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	22		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	100		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-18 Lab Sample ID: 400-256233-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	81		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	24		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	160		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-19 Lab Sample ID: 400-256233-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	1.8		1.0		ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-19 (Continued) Lab Sample ID: 400-256233-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	12		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-20 Lab Sample ID: 400-256233-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	220		2.0		ug/L	2		8260D	Total/NA
Ethylbenzene	5.3		2.0		ug/L	2		8260D	Total/NA
Toluene	2.9		2.0		ug/L	2		8260D	Total/NA
Xylenes, Total	40		20		ug/L	2		8260D	Total/NA

Client Sample ID: MW-23 Lab Sample ID: 400-256233-12

No Detections.

Client Sample ID: MW-24 Lab Sample ID: 400-256233-13

No Detections.

Client Sample ID: MW-25 Lab Sample ID: 400-256233-14

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN

Protocol References:

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-256233-1	TB-01	Water	05/15/24 12:15	05/18/24 08:32
400-256233-2	DUP-01	Water	05/15/24 00:00	05/18/24 08:32
400-256233-3	MW-6	Water	05/15/24 12:38	05/18/24 08:32
400-256233-4	MW-9	Water	05/15/24 12:46	05/18/24 08:32
400-256233-5	MW-13	Water	05/15/24 12:54	05/18/24 08:32
400-256233-6	MW-15	Water	05/15/24 13:01	05/18/24 08:32
400-256233-7	MW-16	Water	05/15/24 13:06	05/18/24 08:32
400-256233-8	MW-17	Water	05/15/24 13:13	05/18/24 08:32
400-256233-9	MW-18	Water	05/15/24 13:22	05/18/24 08:32
400-256233-10	MW-19	Water	05/15/24 13:30	05/18/24 08:32
400-256233-11	MW-20	Water	05/15/24 13:41	05/18/24 08:32
400-256233-12	MW-23	Water	05/15/24 13:47	05/18/24 08:32
400-256233-13	MW-24	Water	05/15/24 12:25	05/18/24 08:32
400-256233-14	MW-25	Water	05/15/24 12:32	05/18/24 08:32

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: TB-01 **Lab Sample ID: 400-256233-1**
Date Collected: 05/15/24 12:15 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/26/24 17:37	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/24 17:37	1
Toluene	<1.0		1.0		ug/L			05/26/24 17:37	1
Xylenes, Total	<10		10		ug/L			05/26/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 130*		*05/26/24 17:37*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*05/26/24 17:37*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*05/26/24 17:37*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: DUP-01 Lab Sample ID: 400-256233-2

Date Collected: 05/15/24 00:00 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/26/24 21:23	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/24 21:23	1
Toluene	<1.0		1.0		ug/L			05/26/24 21:23	1
Xylenes, Total	<10		10		ug/L			05/26/24 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*72 - 130*		*05/26/24 21:23*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*05/26/24 21:23*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*05/26/24 21:23*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-6 Lab Sample ID: 400-256233-3

Date Collected: 05/15/24 12:38 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/26/24 21:48	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/24 21:48	1
Toluene	<1.0		1.0		ug/L			05/26/24 21:48	1
Xylenes, Total	<10		10		ug/L			05/26/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 130*		*05/26/24 21:48*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*05/26/24 21:48*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*05/26/24 21:48*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-9 Lab Sample ID: 400-256233-4

Date Collected: 05/15/24 12:46 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		1.0		ug/L			05/28/24 14:47	1
Ethylbenzene	4.8		1.0		ug/L			05/28/24 14:47	1
Toluene	9.0		1.0		ug/L			05/28/24 14:47	1
Xylenes, Total	25		10		ug/L			05/28/24 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*72 - 130*		*05/28/24 14:47*	*1*
Dibromofluoromethane	*94*		*75 - 126*		*05/28/24 14:47*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*05/28/24 14:47*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-13 Lab Sample ID: 400-256233-5

Date Collected: 05/15/24 12:54 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0		ug/L			05/28/24 12:15	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/24 12:15	1
Toluene	<1.0		1.0		ug/L			05/28/24 12:15	1
Xylenes, Total	<10		10		ug/L			05/28/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/28/24 12:15*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*05/28/24 12:15*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*05/28/24 12:15*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Client Sample ID: MW-15

Date Collected: 05/15/24 13:01
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		10		ug/L			05/28/24 21:32	10
Ethylbenzene	**34**		10		ug/L			05/28/24 21:32	10
Toluene	**47**		10		ug/L			05/28/24 21:32	10
Xylenes, Total	**230**		100		ug/L			05/28/24 21:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/28/24 21:32*	*10*
Dibromofluoromethane	*94*		*75 - 126*		*05/28/24 21:32*	*10*
Toluene-d8 (Surr)	*102*		*64 - 132*		*05/28/24 21:32*	*10*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-16 Lab Sample ID: 400-256233-7

Date Collected: 05/15/24 13:06 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**340**		2.0		ug/L			05/28/24 19:51	2
Ethylbenzene	**20**		2.0		ug/L			05/28/24 19:51	2
Toluene	<2.0		2.0		ug/L			05/28/24 19:51	2
Xylenes, Total	**34**		20		ug/L			05/28/24 19:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/28/24 19:51*	*2*
Dibromofluoromethane	*103*		*75 - 126*		*05/28/24 19:51*	*2*
Toluene-d8 (Surr)	*100*		*64 - 132*		*05/28/24 19:51*	*2*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-17 Lab Sample ID: 400-256233-8

Date Collected: 05/15/24 13:13 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**75**		1.0		ug/L			05/28/24 15:13	1
Ethylbenzene	**22**		1.0		ug/L			05/28/24 15:13	1
Toluene	<1.0		1.0		ug/L			05/28/24 15:13	1
Xylenes, Total	**100**		10		ug/L			05/28/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 130*		*05/28/24 15:13*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*05/28/24 15:13*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*05/28/24 15:13*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-18 Lab Sample ID: 400-256233-9

Date Collected: 05/15/24 13:22 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**81**		1.0		ug/L			05/28/24 15:38	1
Ethylbenzene	**24**		1.0		ug/L			05/28/24 15:38	1
Toluene	<1.0		1.0		ug/L			05/28/24 15:38	1
Xylenes, Total	**160**		10		ug/L			05/28/24 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 130*		*05/28/24 15:38*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*05/28/24 15:38*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*05/28/24 15:38*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-19 Lab Sample ID: 400-256233-10

Date Collected: 05/15/24 13:30 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20**		1.0		ug/L			05/28/24 16:03	1
Ethylbenzene	**1.8**		1.0		ug/L			05/28/24 16:03	1
Toluene	<1.0		1.0		ug/L			05/28/24 16:03	1
Xylenes, Total	**12**		10		ug/L			05/28/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*72 - 130*		*05/28/24 16:03*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*05/28/24 16:03*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*05/28/24 16:03*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-20 Lab Sample ID: 400-256233-11

Date Collected: 05/15/24 13:41 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**220**		2.0		ug/L			05/28/24 20:16	2
Ethylbenzene	**5.3**		2.0		ug/L			05/28/24 20:16	2
Toluene	**2.9**		2.0		ug/L			05/28/24 20:16	2
Xylenes, Total	**40**		20		ug/L			05/28/24 20:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/28/24 20:16*	*2*
Dibromofluoromethane	*97*		*75 - 126*		*05/28/24 20:16*	*2*
Toluene-d8 (Surr)	*101*		*64 - 132*		*05/28/24 20:16*	*2*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-23 Lab Sample ID: 400-256233-12

Date Collected: 05/15/24 13:47 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/24 16:28	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/24 16:28	1
Toluene	<1.0		1.0		ug/L			05/28/24 16:28	1
Xylenes, Total	<10		10		ug/L			05/28/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 130*		*05/28/24 16:28*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*05/28/24 16:28*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*05/28/24 16:28*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-24 Lab Sample ID: 400-256233-13

Date Collected: 05/15/24 12:25 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/24 16:54	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/24 16:54	1
Toluene	<1.0		1.0		ug/L			05/28/24 16:54	1
Xylenes, Total	<10		10		ug/L			05/28/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*05/28/24 16:54*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*05/28/24 16:54*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*05/28/24 16:54*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-25 Lab Sample ID: 400-256233-14

Date Collected: 05/15/24 12:32 **Matrix: Water**
Date Received: 05/18/24 08:32

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/24 17:19	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/24 17:19	1
Toluene	<1.0		1.0		ug/L			05/28/24 17:19	1
Xylenes, Total	<10		10		ug/L			05/28/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 130*		*05/28/24 17:19*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*05/28/24 17:19*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*05/28/24 17:19*	*1*

Definitions/Glossary

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

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

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Client Sample ID: TB-01
Date Collected: 05/15/24 12:15
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672794	05/26/24 17:37	BPO	EET PEN

Client Sample ID: DUP-01
Date Collected: 05/15/24 00:00
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672794	05/26/24 21:23	BPO	EET PEN

Client Sample ID: MW-6
Date Collected: 05/15/24 12:38
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672794	05/26/24 21:48	BPO	EET PEN

Client Sample ID: MW-9
Date Collected: 05/15/24 12:46
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 14:47	CAR	EET PEN

Client Sample ID: MW-13
Date Collected: 05/15/24 12:54
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 12:15	CAR	EET PEN

Client Sample ID: MW-15
Date Collected: 05/15/24 13:01
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	672848	05/28/24 21:32	CAR	EET PEN

Client Sample ID: MW-16
Date Collected: 05/15/24 13:06
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	672848	05/28/24 19:51	CAR	EET PEN

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Client Sample ID: MW-17
Date Collected: 05/15/24 13:13
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 15:13	CAR	EET PEN

Client Sample ID: MW-18
Date Collected: 05/15/24 13:22
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 15:38	CAR	EET PEN

Client Sample ID: MW-19
Date Collected: 05/15/24 13:30
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 16:03	CAR	EET PEN

Client Sample ID: MW-20
Date Collected: 05/15/24 13:41
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	672848	05/28/24 20:16	CAR	EET PEN

Client Sample ID: MW-23
Date Collected: 05/15/24 13:47
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 16:28	CAR	EET PEN

Client Sample ID: MW-24
Date Collected: 05/15/24 12:25
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 16:54	CAR	EET PEN

Client Sample ID: MW-25
Date Collected: 05/15/24 12:32
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 17:19	CAR	EET PEN

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-672794/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672794	05/26/24 10:56	BPO	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-672848/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 11:24	CAR	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-672794/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672794	05/26/24 09:51	BPO	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-672848/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 10:13	CAR	EET PEN

Client Sample ID: MW-13
Date Collected: 05/15/24 12:54
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-5 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 13:31	CAR	EET PEN

Client Sample ID: MW-13
Date Collected: 05/15/24 12:54
Date Received: 05/18/24 08:32

Lab Sample ID: 400-256233-5 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	672848	05/28/24 13:56	CAR	EET PEN

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

GC/MS VOA

Analysis Batch: 672794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-256233-1	TB-01	Total/NA	Water	8260D	
400-256233-2	DUP-01	Total/NA	Water	8260D	
400-256233-3	MW-6	Total/NA	Water	8260D	
MB 400-672794/4	Method Blank	Total/NA	Water	8260D	
LCS 400-672794/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 672848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-256233-4	MW-9	Total/NA	Water	8260D	
400-256233-5	MW-13	Total/NA	Water	8260D	
400-256233-6	MW-15	Total/NA	Water	8260D	
400-256233-7	MW-16	Total/NA	Water	8260D	
400-256233-8	MW-17	Total/NA	Water	8260D	
400-256233-9	MW-18	Total/NA	Water	8260D	
400-256233-10	MW-19	Total/NA	Water	8260D	
400-256233-11	MW-20	Total/NA	Water	8260D	
400-256233-12	MW-23	Total/NA	Water	8260D	
400-256233-13	MW-24	Total/NA	Water	8260D	
400-256233-14	MW-25	Total/NA	Water	8260D	
MB 400-672848/4	Method Blank	Total/NA	Water	8260D	
LCS 400-672848/1002	Lab Control Sample	Total/NA	Water	8260D	
400-256233-5 MS	MW-13	Total/NA	Water	8260D	
400-256233-5 MSD	MW-13	Total/NA	Water	8260D	

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-672794/4
Matrix: Water
Analysis Batch: 672794

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/26/24 10:56	1
Ethylbenzene	<1.0		1.0		ug/L			05/26/24 10:56	1
Toluene	<1.0		1.0		ug/L			05/26/24 10:56	1
Xylenes, Total	<10		10		ug/L			05/26/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*72 - 130*		*05/26/24 10:56*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*05/26/24 10:56*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*05/26/24 10:56*	*1*

Lab Sample ID: LCS 400-672794/1002
Matrix: Water
Analysis Batch: 672794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	48.3		ug/L		97	70 - 130
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	70 - 130
o-Xylene	50.0	49.8		ug/L		100	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Toluene	50.0	48.0		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*72 - 130*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: MB 400-672848/4
Matrix: Water
Analysis Batch: 672848

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/24 11:24	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/24 11:24	1
Toluene	<1.0		1.0		ug/L			05/28/24 11:24	1
Xylenes, Total	<10		10		ug/L			05/28/24 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 130*		*05/28/24 11:24*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*05/28/24 11:24*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*05/28/24 11:24*	*1*

Lab Sample ID: LCS 400-672848/1002
Matrix: Water
Analysis Batch: 672848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	51.3		ug/L		103	70 - 130
m-Xylene & p-Xylene	50.0	54.5		ug/L		109	70 - 130

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-256233-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 400-672848/1002
Matrix: Water
Analysis Batch: 672848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			50.0	54.5		ug/L		109	70 - 130		
Ethylbenzene			50.0	55.0		ug/L		110	70 - 130		
Toluene			50.0	50.1		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*72 - 130*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: 400-256233-5 MS
Matrix: Water
Analysis Batch: 672848

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	1.2		50.0	46.9		ug/L		91	56 - 142		
m-Xylene & p-Xylene	<5.0		50.0	42.0		ug/L		84	57 - 130		
o-Xylene	<5.0		50.0	43.5		ug/L		87	61 - 130		
Ethylbenzene	<1.0		50.0	43.8		ug/L		88	58 - 131		
Toluene	<1.0		50.0	43.4		ug/L		87	65 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*72 - 130*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: 400-256233-5 MSD
Matrix: Water
Analysis Batch: 672848

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	1.2		50.0	55.0		ug/L		107	56 - 142	16	30
m-Xylene & p-Xylene	<5.0		50.0	48.8		ug/L		98	57 - 130	15	30
o-Xylene	<5.0		50.0	50.2		ug/L		100	61 - 130	14	30
Ethylbenzene	<1.0		50.0	50.2		ug/L		100	58 - 131	14	30
Toluene	<1.0		50.0	48.1		ug/L		96	65 - 130	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 130*
Dibromofluoromethane	*98*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514
Phone. 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

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Client Information	Sampler: Emma Brady	Lab PM: Whitmire Cheyenne R	400-256233 COC	Carrier Tracking No(s)	COC No: 400-130511-41341 1
Client Contact: Joe Wiley	Phone: 575-253-0830	E-Mail: Cheyenne Whitmire@et.eurofinsus.com		State of Origin:	Page: Page 1 of 2
Company: El Paso Energy Corporation	PWSID:				Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: STD				
City: Houston	TAT Requested (days): STD				
State Zip: TX, 77002	Compliance Project: Δ Yes Δ No				
Phone:	PO #: WD1040031				
Email: joe.wiley@kindermorgan com	WO #: Johnston Federal #4_ERG_ARF_5-1-2024				
Project Name: Johnston Federal #4 00	Project #: 40015823				
Site:	SSOW#:				

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - BTEX - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-01	5/15/2024	1215	G	Water	N	N	X	2	
Dup-01	5/15/2024	—	G	Water	N	N	X	2	
MW-6	5/15/2024	1238	G	Water	N	N	X	2	
MW-9	5/15/2024	1246	G	Water	N	N	X	2	
MW-13	5/15/2024	1254	G	Water	N	N	X	2	
MW-15	5/15/2024	1301	G	Water	N	N	X	2	
MW-16	5/15/2024	1306	G	Water	N	N	X	2	
MW-17	5/15/2024	1313	G	Water	N	N	X	2	
MW-18	5/15/2024	1322	G	Water	N	N	X	2	
MW-19	5/15/2024	1330	G	Water	N	N	X	2	
MW-20	5/15/2024	1341	G	Water	N	N	X	2	

ERG

Preservation Codes: A - HCL
Other:

ERG

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	5/16/2024 0600	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/18/24 8:32	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.5°C IR#1

Ver: 06/08/2021

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514
Phone. 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

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Client Information	Sampler: Emma Brady	Lab PM: Whitmire Cheyenne R	Carrier Tracking No(s)	COC No: 400-130511-41341 2
Client Contact: Joe Wiley	Phone: 515-253-0830	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin.	Page: Page 2 of 2
Company: El Paso Energy Corporation	PWSID			Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested: STD			
City: Houston	TAT Requested (days): STD			
State Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040031			
Email: joe.wiley@kindermorgan.com	WO #: Johnston Federal #4_ERG_ARF_5-1-2024			
Project Name: Johnston Federal #4 00	Project #: 40015823			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - BTEX - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-23	5/15/2024	1347	G	Water	N	N	X	2	
MW-24	5/15/2024	1225	G	Water	N	N	X	2	
MW-25	5/15/2024	1232	G	Water	N	N	X	2	
				Water					
				Water					

ERB

ERB

ERB

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Emma Brady	5/16/2024 0600	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/18/24 8:32	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 0.5°C IR41

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services, Inc. Job Number: 400-256233-1

Login Number: 256233 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C IR-11
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services, Inc. Job ID: 400-256233-1
Project/Site: Johnston Federal #4.00

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

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ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Varsa
Stantec Consulting Services, Inc.
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

Generated 11/30/2024 10:36:12 AM

JOB DESCRIPTION

Johnston Federal #4.00

JOB NUMBER

400-265794-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

my EOL

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Job Notes

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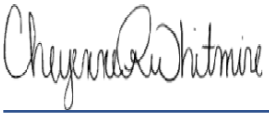
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
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Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Laboratory Job ID: 400-265794-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project: Johnston Federal #4.00

Job ID: 400-265794-1 Eurofins Pensacola

Job Narrative
400-265794-1

Receipt
The samples were received on 11/12/2024 9:24 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-02 (400-265794-3), MW-1 (400-265794-4), MW-15 (400-265794-14), MW-16 (400-265794-15) and MW-20 (400-265794-19). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: MW-14 (400-265794-13) and MW-25 (400-265794-23). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: TB-01 Lab Sample ID: 400-265794-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-265794-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	6.1		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	36		10		ug/L	1		8260D	Total/NA

Client Sample ID: DUP-02 Lab Sample ID: 400-265794-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3900		20		ug/L	20		8260D	Total/NA
Ethylbenzene	110		20		ug/L	20		8260D	Total/NA
Toluene	3700		20		ug/L	20		8260D	Total/NA
Xylenes, Total	3800		200		ug/L	20		8260D	Total/NA

Client Sample ID: MW-1 Lab Sample ID: 400-265794-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5200		50		ug/L	50		8260D	Total/NA
Ethylbenzene	140		50		ug/L	50		8260D	Total/NA
Toluene	5200		50		ug/L	50		8260D	Total/NA
Xylenes, Total	5600		500		ug/L	50		8260D	Total/NA

Client Sample ID: MW-2 Lab Sample ID: 400-265794-5

No Detections.

Client Sample ID: MW-3 Lab Sample ID: 400-265794-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	82		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	10		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-4 Lab Sample ID: 400-265794-7

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-265794-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-9 Lab Sample ID: 400-265794-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	160		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	6.8		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	29		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-10 Lab Sample ID: 400-265794-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	2.8		1.0		ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Client Sample ID: MW-10 (Continued) — Lab Sample ID: 400-265794-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.8		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 400-265794-11

No Detections.

Client Sample ID: MW-13 — Lab Sample ID: 400-265794-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.0		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 400-265794-13

No Detections.

Client Sample ID: MW-15 — Lab Sample ID: 400-265794-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		10		ug/L	10		8260D	Total/NA
Ethylbenzene	68		10		ug/L	10		8260D	Total/NA
Toluene	33		10		ug/L	10		8260D	Total/NA
Xylenes, Total	450		100		ug/L	10		8260D	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 400-265794-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	320		2.0		ug/L	2		8260D	Total/NA
Ethylbenzene	27		2.0		ug/L	2		8260D	Total/NA
Xylenes, Total	28		20		ug/L	2		8260D	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 400-265794-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	95		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	25		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	110		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 400-265794-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	16		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	3.9		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	22		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 400-265794-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.6		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 400-265794-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	330		2.0		ug/L	2		8260D	Total/NA
Ethylbenzene	19		2.0		ug/L	2		8260D	Total/NA
Xylenes, Total	140		20		ug/L	2		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-22 Lab Sample ID: 400-265794-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.0		1.0		ug/L	1		8260D	Total/NA
Ethylbenzene	2.5		1.0		ug/L	1		8260D	Total/NA
Xylenes, Total	22		10		ug/L	1		8260D	Total/NA

Client Sample ID: MW-23 Lab Sample ID: 400-265794-21

No Detections.

Client Sample ID: MW-24 Lab Sample ID: 400-265794-22

No Detections.

Client Sample ID: MW-25 Lab Sample ID: 400-265794-23

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN

Protocol References:

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-265794-1	TB-01	Water	11/09/24 10:00	11/12/24 09:24
400-265794-2	DUP-01	Water	11/09/24 12:00	11/12/24 09:24
400-265794-3	DUP-02	Water	11/09/24 12:00	11/12/24 09:24
400-265794-4	MW-1	Water	11/09/24 10:20	11/12/24 09:24
400-265794-5	MW-2	Water	11/09/24 10:35	11/12/24 09:24
400-265794-6	MW-3	Water	11/09/24 10:44	11/12/24 09:24
400-265794-7	MW-4	Water	11/09/24 10:56	11/12/24 09:24
400-265794-8	MW-6	Water	11/09/24 11:04	11/12/24 09:24
400-265794-9	MW-9	Water	11/09/24 11:12	11/12/24 09:24
400-265794-10	MW-10	Water	11/09/24 11:22	11/12/24 09:24
400-265794-11	MW-12	Water	11/09/24 11:30	11/12/24 09:24
400-265794-12	MW-13	Water	11/09/24 11:44	11/12/24 09:24
400-265794-13	MW-14	Water	11/09/24 11:56	11/12/24 09:24
400-265794-14	MW-15	Water	11/09/24 12:07	11/12/24 09:24
400-265794-15	MW-16	Water	11/09/24 12:15	11/12/24 09:24
400-265794-16	MW-17	Water	11/09/24 12:29	11/12/24 09:24
400-265794-17	MW-18	Water	11/09/24 12:54	11/12/24 09:24
400-265794-18	MW-19	Water	11/09/24 13:04	11/12/24 09:24
400-265794-19	MW-20	Water	11/09/24 13:10	11/12/24 09:24
400-265794-20	MW-22	Water	11/09/24 13:16	11/12/24 09:24
400-265794-21	MW-23	Water	11/09/24 13:29	11/12/24 09:24
400-265794-22	MW-24	Water	11/09/24 13:35	11/12/24 09:24
400-265794-23	MW-25	Water	11/09/24 13:41	11/12/24 09:24

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: TB-01 **Lab Sample ID: 400-265794-1**
Date Collected: 11/09/24 10:00 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/24 09:25	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/24 09:25	1
Toluene	<1.0		1.0		ug/L			11/21/24 09:25	1
Xylenes, Total	<10		10		ug/L			11/21/24 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*72 - 130*		*11/21/24 09:25*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/21/24 09:25*	*1*
Toluene-d8 (Surr)	*97*		*64 - 132*		*11/21/24 09:25*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: DUP-01 Lab Sample ID: 400-265794-2

Date Collected: 11/09/24 12:00 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20**		1.0		ug/L			11/21/24 10:31	1
Ethylbenzene	**6.1**		1.0		ug/L			11/21/24 10:31	1
Toluene	<1.0		1.0		ug/L			11/21/24 10:31	1
Xylenes, Total	**36**		10		ug/L			11/21/24 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*72 - 130*		*11/21/24 10:31*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/21/24 10:31*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/21/24 10:31*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: DUP-02 Lab Sample ID: 400-265794-3

Date Collected: 11/09/24 12:00 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3900		20		ug/L			11/21/24 18:12	20
Ethylbenzene	110		20		ug/L			11/21/24 18:12	20
Toluene	3700		20		ug/L			11/21/24 18:12	20
Xylenes, Total	3800		200		ug/L			11/21/24 18:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*72 - 130*		*11/21/24 18:12*	*20*
Dibromofluoromethane	*102*		*75 - 126*		*11/21/24 18:12*	*20*
Toluene-d8 (Surr)	*92*		*64 - 132*		*11/21/24 18:12*	*20*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-1 Lab Sample ID: 400-265794-4

Date Collected: 11/09/24 10:20 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5200		50		ug/L			11/21/24 12:43	50
Ethylbenzene	140		50		ug/L			11/21/24 12:43	50
Toluene	5200		50		ug/L			11/21/24 12:43	50
Xylenes, Total	5600		500		ug/L			11/21/24 12:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*72 - 130*		*11/21/24 12:43*	*50*
Dibromofluoromethane	*102*		*75 - 126*		*11/21/24 12:43*	*50*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/21/24 12:43*	*50*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-2 **Lab Sample ID: 400-265794-5**
Date Collected: 11/09/24 10:35 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 10:53	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 10:53	1
Toluene	<1.0		1.0		ug/L			11/22/24 10:53	1
Xylenes, Total	<10		10		ug/L			11/22/24 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*11/22/24 10:53*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*11/22/24 10:53*	*1*
Toluene-d8 (Surr)	*108*		*64 - 132*		*11/22/24 10:53*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-3 Lab Sample ID: 400-265794-6

Date Collected: 11/09/24 10:44 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**82**		1.0		ug/L			11/21/24 17:28	1
Ethylbenzene	**1.3**		1.0		ug/L			11/21/24 17:28	1
Toluene	<1.0		1.0		ug/L			11/21/24 17:28	1
Xylenes, Total	**10**		10		ug/L			11/21/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 130*		*11/21/24 17:28*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/21/24 17:28*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*11/21/24 17:28*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-4 **Lab Sample ID: 400-265794-7**
Date Collected: 11/09/24 10:56 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 11:16	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 11:16	1
Toluene	<1.0		1.0		ug/L			11/22/24 11:16	1
Xylenes, Total	<10		10		ug/L			11/22/24 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*72 - 130*		*11/22/24 11:16*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*11/22/24 11:16*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/22/24 11:16*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-6 Lab Sample ID: 400-265794-8

Date Collected: 11/09/24 11:04 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0		ug/L			11/22/24 11:39	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 11:39	1
Toluene	<1.0		1.0		ug/L			11/22/24 11:39	1
Xylenes, Total	<10		10		ug/L			11/22/24 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 130*		*11/22/24 11:39*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/22/24 11:39*	*1*
Toluene-d8 (Surr)	*111*		*64 - 132*		*11/22/24 11:39*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-9 Lab Sample ID: 400-265794-9

Date Collected: 11/09/24 11:12 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**160**		1.0		ug/L			11/22/24 12:01	1
Ethylbenzene	**6.8**		1.0		ug/L			11/22/24 12:01	1
Toluene	<1.0		1.0		ug/L			11/22/24 12:01	1
Xylenes, Total	**29**		10		ug/L			11/22/24 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*126*		*72 - 130*		*11/22/24 12:01*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/22/24 12:01*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/22/24 12:01*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-10 Lab Sample ID: 400-265794-10

Date Collected: 11/09/24 11:22 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**130**		1.0		ug/L			11/21/24 17:50	1
Ethylbenzene	**2.8**		1.0		ug/L			11/21/24 17:50	1
Toluene	**2.8**		1.0		ug/L			11/21/24 17:50	1
Xylenes, Total	<10		10		ug/L			11/21/24 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*72 - 130*		*11/21/24 17:50*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*11/21/24 17:50*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/21/24 17:50*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-12 Lab Sample ID: 400-265794-11

Date Collected: 11/09/24 11:30 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 16:11	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 16:11	1
Toluene	<1.0		1.0		ug/L			11/22/24 16:11	1
Xylenes, Total	<10		10		ug/L			11/22/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 130*		*11/22/24 16:11*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/22/24 16:11*	*1*
Toluene-d8 (Surr)	*107*		*64 - 132*		*11/22/24 16:11*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-13 Lab Sample ID: 400-265794-12

Date Collected: 11/09/24 11:44 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.0**		1.0		ug/L			11/23/24 08:40	1
Ethylbenzene	<1.0		1.0		ug/L			11/23/24 08:40	1
Toluene	<1.0		1.0		ug/L			11/23/24 08:40	1
Xylenes, Total	<10		10		ug/L			11/23/24 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*81*		*72 - 130*		*11/23/24 08:40*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/23/24 08:40*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/23/24 08:40*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-14 **Lab Sample ID: 400-265794-13**
Date Collected: 11/09/24 11:56 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 16:56	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 16:56	1
Toluene	<1.0		1.0		ug/L			11/22/24 16:56	1
Xylenes, Total	<10		10		ug/L			11/22/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*141*	*S1+*	*72 - 130*		*11/22/24 16:56*	*1*
Dibromofluoromethane	*75*		*75 - 126*		*11/22/24 16:56*	*1*
Toluene-d8 (Surr)	*85*		*64 - 132*		*11/22/24 16:56*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-15 Lab Sample ID: 400-265794-14

Date Collected: 11/09/24 12:07 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1900		10		ug/L			11/22/24 13:32	10
Ethylbenzene	68		10		ug/L			11/22/24 13:32	10
Toluene	33		10		ug/L			11/22/24 13:32	10
Xylenes, Total	450		100		ug/L			11/22/24 13:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 130*		*11/22/24 13:32*	*10*
Dibromofluoromethane	*84*		*75 - 126*		*11/22/24 13:32*	*10*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/22/24 13:32*	*10*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-16 Lab Sample ID: 400-265794-15

Date Collected: 11/09/24 12:15 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**320**		2.0		ug/L			11/22/24 12:47	2
Ethylbenzene	**27**		2.0		ug/L			11/22/24 12:47	2
Toluene	<2.0		2.0		ug/L			11/22/24 12:47	2
Xylenes, Total	**28**		20		ug/L			11/22/24 12:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*11/22/24 12:47*	*2*
Dibromofluoromethane	*99*		*75 - 126*		*11/22/24 12:47*	*2*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/22/24 12:47*	*2*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-17 **Lab Sample ID: 400-265794-16**
Date Collected: 11/09/24 12:29 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**95**		1.0		ug/L			11/22/24 17:19	1
Ethylbenzene	**25**		1.0		ug/L			11/22/24 17:19	1
Toluene	<1.0		1.0		ug/L			11/22/24 17:19	1
Xylenes, Total	**110**		10		ug/L			11/22/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 130*		*11/22/24 17:19*	*1*
Dibromofluoromethane	*121*		*75 - 126*		*11/22/24 17:19*	*1*
Toluene-d8 (Surr)	*85*		*64 - 132*		*11/22/24 17:19*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-18 Lab Sample ID: 400-265794-17

Date Collected: 11/09/24 12:54 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16**		1.0		ug/L			11/22/24 17:42	1
Ethylbenzene	**3.9**		1.0		ug/L			11/22/24 17:42	1
Toluene	<1.0		1.0		ug/L			11/22/24 17:42	1
Xylenes, Total	**22**		10		ug/L			11/22/24 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*11/22/24 17:42*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*11/22/24 17:42*	*1*
Toluene-d8 (Surr)	*105*		*64 - 132*		*11/22/24 17:42*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-19 Lab Sample ID: 400-265794-18

Date Collected: 11/09/24 13:04 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.6**		1.0		ug/L			11/22/24 18:05	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 18:05	1
Toluene	<1.0		1.0		ug/L			11/22/24 18:05	1
Xylenes, Total	<10		10		ug/L			11/22/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 130*		*11/22/24 18:05*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*11/22/24 18:05*	*1*
Toluene-d8 (Surr)	*110*		*64 - 132*		*11/22/24 18:05*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-20 Lab Sample ID: 400-265794-19

Date Collected: 11/09/24 13:10 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**330**		2.0		ug/L			11/22/24 13:10	2
Ethylbenzene	**19**		2.0		ug/L			11/22/24 13:10	2
Toluene	<2.0		2.0		ug/L			11/22/24 13:10	2
Xylenes, Total	**140**		20		ug/L			11/22/24 13:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*72 - 130*		*11/22/24 13:10*	*2*
Dibromofluoromethane	*100*		*75 - 126*		*11/22/24 13:10*	*2*
Toluene-d8 (Surr)	*107*		*64 - 132*		*11/22/24 13:10*	*2*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-22 Lab Sample ID: 400-265794-20

Date Collected: 11/09/24 13:16 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.0**		1.0		ug/L			11/22/24 20:21	1
Ethylbenzene	**2.5**		1.0		ug/L			11/22/24 20:21	1
Toluene	<1.0		1.0		ug/L			11/22/24 20:21	1
Xylenes, Total	**22**		10		ug/L			11/22/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 130*		*11/22/24 20:21*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/22/24 20:21*	*1*
Toluene-d8 (Surr)	*109*		*64 - 132*		*11/22/24 20:21*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-23 **Lab Sample ID: 400-265794-21**
Date Collected: 11/09/24 13:29 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 18:27	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 18:27	1
Toluene	<1.0		1.0		ug/L			11/22/24 18:27	1
Xylenes, Total	<10		10		ug/L			11/22/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*72 - 130*		*11/22/24 18:27*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*11/22/24 18:27*	*1*
Toluene-d8 (Surr)	*107*		*64 - 132*		*11/22/24 18:27*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-24 **Lab Sample ID: 400-265794-22**
Date Collected: 11/09/24 13:35 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/23/24 08:18	1
Ethylbenzene	<1.0		1.0		ug/L			11/23/24 08:18	1
Toluene	<1.0		1.0		ug/L			11/23/24 08:18	1
Xylenes, Total	<10		10		ug/L			11/23/24 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*72 - 130*		*11/23/24 08:18*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/23/24 08:18*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*11/23/24 08:18*	*1*

Client Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Client Sample ID: MW-25 Lab Sample ID: 400-265794-23

Date Collected: 11/09/24 13:41 **Matrix: Water**
Date Received: 11/12/24 09:24

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 19:13	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 19:13	1
Toluene	<1.0		1.0		ug/L			11/22/24 19:13	1
Xylenes, Total	<10		10		ug/L			11/22/24 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 130*		*11/22/24 19:13*	*1*
Dibromofluoromethane	*127*	*S1+*	*75 - 126*		*11/22/24 19:13*	*1*
Toluene-d8 (Surr)	*81*		*64 - 132*		*11/22/24 19:13*	*1*

Definitions/Glossary

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Client Sample ID: TB-01
Date Collected: 11/09/24 10:00
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691932	11/21/24 09:25	WPD	EET PEN

Client Sample ID: DUP-01
Date Collected: 11/09/24 12:00
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691932	11/21/24 10:31	WPD	EET PEN

Client Sample ID: DUP-02
Date Collected: 11/09/24 12:00
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		20	5 mL	5 mL	691932	11/21/24 18:12	WPD	EET PEN

Client Sample ID: MW-1
Date Collected: 11/09/24 10:20
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	691932	11/21/24 12:43	WPD	EET PEN

Client Sample ID: MW-2
Date Collected: 11/09/24 10:35
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 10:53	WPD	EET PEN

Client Sample ID: MW-3
Date Collected: 11/09/24 10:44
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691932	11/21/24 17:28	WPD	EET PEN

Client Sample ID: MW-4
Date Collected: 11/09/24 10:56
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 11:16	WPD	EET PEN

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Client Sample ID: MW-6
Date Collected: 11/09/24 11:04
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 11:39	WPD	EET PEN

Client Sample ID: MW-9
Date Collected: 11/09/24 11:12
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 12:01	WPD	EET PEN

Client Sample ID: MW-10
Date Collected: 11/09/24 11:22
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691932	11/21/24 17:50	WPD	EET PEN

Client Sample ID: MW-12
Date Collected: 11/09/24 11:30
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 16:11	WPD	EET PEN

Client Sample ID: MW-13
Date Collected: 11/09/24 11:44
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692218	11/23/24 08:40	WPD	EET PEN

Client Sample ID: MW-14
Date Collected: 11/09/24 11:56
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 16:56	WPD	EET PEN

Client Sample ID: MW-15
Date Collected: 11/09/24 12:07
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	692086	11/22/24 13:32	WPD	EET PEN

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Client Sample ID: MW-16
Date Collected: 11/09/24 12:15
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	692086	11/22/24 12:47	WPD	EET PEN

Client Sample ID: MW-17
Date Collected: 11/09/24 12:29
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 17:19	WPD	EET PEN

Client Sample ID: MW-18
Date Collected: 11/09/24 12:54
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 17:42	WPD	EET PEN

Client Sample ID: MW-19
Date Collected: 11/09/24 13:04
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 18:05	WPD	EET PEN

Client Sample ID: MW-20
Date Collected: 11/09/24 13:10
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	692086	11/22/24 13:10	WPD	EET PEN

Client Sample ID: MW-22
Date Collected: 11/09/24 13:16
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 20:21	WPD	EET PEN

Client Sample ID: MW-23
Date Collected: 11/09/24 13:29
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 18:27	WPD	EET PEN

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Client Sample ID: MW-24
Date Collected: 11/09/24 13:35
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692218	11/23/24 08:18	WPD	EET PEN

Client Sample ID: MW-25
Date Collected: 11/09/24 13:41
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 19:13	WPD	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-691932/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691932	11/21/24 08:41	WPD	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-692086/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 09:45	WPD	EET PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-692218/5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692218	11/23/24 07:34	WPD	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-691932/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	691932	11/21/24 07:47	WPD	EET PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-692086/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 08:42	WPD	EET PEN

Lab Chronicle

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-692218/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692218	11/23/24 06:28	WPD	EET PEN

Client Sample ID: MW-2
Date Collected: 11/09/24 10:35
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-5 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 14:18	WPD	EET PEN

Client Sample ID: MW-2
Date Collected: 11/09/24 10:35
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-5 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692086	11/22/24 15:26	WPD	EET PEN

Client Sample ID: MW-24
Date Collected: 11/09/24 13:35
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-22 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692218	11/23/24 11:13	WPD	EET PEN

Client Sample ID: MW-24
Date Collected: 11/09/24 13:35
Date Received: 11/12/24 09:24

Lab Sample ID: 400-265794-22 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	692218	11/23/24 11:35	WPD	EET PEN

Laboratory References:
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

GC/MS VOA

Analysis Batch: 691932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-265794-1	TB-01	Total/NA	Water	8260D	
400-265794-2	DUP-01	Total/NA	Water	8260D	
400-265794-3	DUP-02	Total/NA	Water	8260D	
400-265794-4	MW-1	Total/NA	Water	8260D	
400-265794-6	MW-3	Total/NA	Water	8260D	
400-265794-10	MW-10	Total/NA	Water	8260D	
MB 400-691932/4	Method Blank	Total/NA	Water	8260D	
LCS 400-691932/1002	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 692086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-265794-5	MW-2	Total/NA	Water	8260D	
400-265794-7	MW-4	Total/NA	Water	8260D	
400-265794-8	MW-6	Total/NA	Water	8260D	
400-265794-9	MW-9	Total/NA	Water	8260D	
400-265794-11	MW-12	Total/NA	Water	8260D	
400-265794-13	MW-14	Total/NA	Water	8260D	
400-265794-14	MW-15	Total/NA	Water	8260D	
400-265794-15	MW-16	Total/NA	Water	8260D	
400-265794-16	MW-17	Total/NA	Water	8260D	
400-265794-17	MW-18	Total/NA	Water	8260D	
400-265794-18	MW-19	Total/NA	Water	8260D	
400-265794-19	MW-20	Total/NA	Water	8260D	
400-265794-20	MW-22	Total/NA	Water	8260D	
400-265794-21	MW-23	Total/NA	Water	8260D	
400-265794-23	MW-25	Total/NA	Water	8260D	
MB 400-692086/4	Method Blank	Total/NA	Water	8260D	
LCS 400-692086/1002	Lab Control Sample	Total/NA	Water	8260D	
400-265794-5 MS	MW-2	Total/NA	Water	8260D	
400-265794-5 MSD	MW-2	Total/NA	Water	8260D	

Analysis Batch: 692218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-265794-12	MW-13	Total/NA	Water	8260D	
400-265794-22	MW-24	Total/NA	Water	8260D	
MB 400-692218/5	Method Blank	Total/NA	Water	8260D	
LCS 400-692218/1002	Lab Control Sample	Total/NA	Water	8260D	
400-265794-22 MS	MW-24	Total/NA	Water	8260D	
400-265794-22 MSD	MW-24	Total/NA	Water	8260D	

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-691932/4
Matrix: Water
Analysis Batch: 691932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/24 08:41	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/24 08:41	1
Toluene	<1.0		1.0		ug/L			11/21/24 08:41	1
Xylenes, Total	<10		10		ug/L			11/21/24 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*72 - 130*		*11/21/24 08:41*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/21/24 08:41*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/21/24 08:41*	*1*

Lab Sample ID: LCS 400-691932/1002
Matrix: Water
Analysis Batch: 691932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	52.8		ug/L		106	70 - 130
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	70 - 130
o-Xylene	50.0	49.8		ug/L		100	70 - 130
Ethylbenzene	50.0	52.6		ug/L		105	70 - 130
Toluene	50.0	53.9		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*71*		*67 - 134*
4-Bromofluorobenzene	*93*		*72 - 130*
Dibromofluoromethane	*91*		*75 - 126*
Toluene-d8 (Surr)	*96*		*64 - 132*

Lab Sample ID: MB 400-692086/4
Matrix: Water
Analysis Batch: 692086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/22/24 09:45	1
Ethylbenzene	<1.0		1.0		ug/L			11/22/24 09:45	1
Toluene	<1.0		1.0		ug/L			11/22/24 09:45	1
Xylenes, Total	<10		10		ug/L			11/22/24 09:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 130*		*11/22/24 09:45*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/22/24 09:45*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/22/24 09:45*	*1*

Lab Sample ID: LCS 400-692086/1002
Matrix: Water
Analysis Batch: 692086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	50.4		ug/L		101	70 - 130

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 400-692086/1002
Matrix: Water
Analysis Batch: 692086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m-Xylene & p-Xylene			50.0	49.0		ug/L		98	70 - 130		
o-Xylene			50.0	50.4		ug/L		101	70 - 130		
Ethylbenzene			50.0	52.4		ug/L		105	70 - 130		
Toluene			50.0	52.8		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*67 - 134*
4-Bromofluorobenzene	*100*		*72 - 130*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*104*		*64 - 132*

Lab Sample ID: 400-265794-5 MS
Matrix: Water
Analysis Batch: 692086

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<1.0		50.0	51.6		ug/L		103	56 - 142		
m-Xylene & p-Xylene	<5.0		50.0	47.9		ug/L		96	57 - 130		
o-Xylene	<5.0		50.0	50.8		ug/L		102	61 - 130		
Ethylbenzene	<1.0		50.0	51.2		ug/L		102	58 - 131		
Toluene	<1.0		50.0	53.2		ug/L		106	65 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*67 - 134*
4-Bromofluorobenzene	*104*		*72 - 130*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*102*		*64 - 132*

Lab Sample ID: 400-265794-5 MSD
Matrix: Water
Analysis Batch: 692086

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<1.0		50.0	47.9		ug/L		96	56 - 142	7	30
m-Xylene & p-Xylene	<5.0		50.0	46.4		ug/L		93	57 - 130	3	30
o-Xylene	<5.0		50.0	48.1		ug/L		96	61 - 130	5	30
Ethylbenzene	<1.0		50.0	49.4		ug/L		99	58 - 131	4	30
Toluene	<1.0		50.0	51.0		ug/L		102	65 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*67 - 134*
4-Bromofluorobenzene	*102*		*72 - 130*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*102*		*64 - 132*

QC Sample Results

Client: Stantec Consulting Services, Inc.
Project/Site: Johnston Federal #4.00

Job ID: 400-265794-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 400-692218/5
Matrix: Water
Analysis Batch: 692218

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/23/24 07:34	1
Ethylbenzene	<1.0		1.0		ug/L			11/23/24 07:34	1
Toluene	<1.0		1.0		ug/L			11/23/24 07:34	1
Xylenes, Total	<10		10		ug/L			11/23/24 07:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*72 - 130*		*11/23/24 07:34*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/23/24 07:34*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/23/24 07:34*	*1*

Lab Sample ID: LCS 400-692218/1002
Matrix: Water
Analysis Batch: 692218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	53.7		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	70 - 130
o-Xylene	50.0	49.8		ug/L		100	70 - 130
Ethylbenzene	50.0	52.4		ug/L		105	70 - 130
Toluene	50.0	53.4		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*77*		*67 - 134*
4-Bromofluorobenzene	*91*		*72 - 130*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*96*		*64 - 132*

Lab Sample ID: 400-265794-22 MS
Matrix: Water
Analysis Batch: 692218

Client Sample ID: MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<1.0		50.0	46.2		ug/L		90	56 - 142
m-Xylene & p-Xylene	<5.0		50.0	41.1		ug/L		82	57 - 130
o-Xylene	<5.0		50.0	40.4		ug/L		81	61 - 130
Ethylbenzene	<1.0		50.0	42.5		ug/L		85	58 - 131
Toluene	<1.0		50.0	42.8		ug/L		86	65 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*67 - 134*
4-Bromofluorobenzene	*91*		*72 - 130*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*91*		*64 - 132*

QC Sample Results

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-265794-22 MSD **Client Sample ID: MW-24**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 692218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<1.0		50.0	50.9		ug/L		100	56 - 142	10	30
m-Xylene & p-Xylene	<5.0		50.0	44.4		ug/L		89	57 - 130	8	30
o-Xylene	<5.0		50.0	41.3		ug/L		83	61 - 130	2	30
Ethylbenzene	<1.0		50.0	45.9		ug/L		92	58 - 131	8	30
Toluene	<1.0		50.0	49.2		ug/L		98	65 - 130	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*67 - 134*
4-Bromofluorobenzene	*97*		*72 - 130*
Dibromofluoromethane	*92*		*75 - 126*
Toluene-d8 (Surr)	*94*		*64 - 132*

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Sean Clary	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-134752-41341.1
Client Contact: Joe Wiley	Phone: 913 980 0281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 3
Company: El Paso Energy Corporation	PWSID:	Analysis Requested		Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested:			Preservation Codes: A - HCL
City: Houston	TAT Requested (days): STD			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone: 515 253 0830	PO #: WD1040031			400-265794 COC
Email: joe.wiley@kindermorgan.com	WO #: Johnston Federal #4_ERG_ARF_10-25-2024			Other:
Project Name: Johnston Federal #4.00	Project #: 40015823			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260D - BTEX - 8260	Special Instructions/Note:
			Preservation Code:			
TB-01	11-9-2024	1000	G	Water	X	
DUP-01	11-9-2024	—	G	Water	X	
DUP-02	11-9-2024	—	G	Water	X	
~~MW-01~~ src MW-1	11-9-2024	1020	G	Water	X	
MW-2	11-9-2024	1035	G	Water	X	
MW-3	11-9-2024	1044	G	Water	X	
MW-4	11-9-2024	1056	G	Water	X	
MW-6	11-9-2024	1104	G	Water	X	
MW-9	11-9-2024	1112	G	Water	X	
MW-10	11-9-2024	1122	G	Water	X	
MW-12	11-9-2024	1130	G	Water	X	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) See ARF

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sean R Clary	11-11-2024 1000	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/12/24 9:24	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.0 IR11

Ver: 10/10/2024

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Sean Clary	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-134752-41341.2
Client Contact: Joe Wiley	Phone: 913 980 0281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 3
Company: El Paso Energy Corporation	PWSID:	Analysis Requested		Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested:			Preservation Codes: A - HCL
City: Houston	TAT Requested (days): STD			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone: 515 253 0830	PO #: WD1040031			
Email: joe.wiley@kindermorgan.com	WO #: Johnston Federal #4_ERG_ARF_10-25-2024			
Project Name: Johnston Federal #4.00	Project #: 40015823			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260D - BTEX - 8260	Perform MS/MSD (Yes or No)	Special Instructions/Note:
			Preservation Code:			A		
MW-13	11-9-2024	1144	G	Water		X		
MW-14	11-9-2024	1156	G	Water		X		
MW-15	11-9-2024	1207	G	Water		X		Limited Volume
MW-16	11-9-2024	1215	G	Water		X		
MW-17	11-9-2024	1229	G	Water		X		
MW-18	11-9-2024	1254	G	Water		X		
MW-19	11-9-2024	1304	G	Water		X		
MW-20	11-9-2024	1310	G	Water		X		
MW-22	11-9-2024	1316	G	Water		X		
MW-23	11-9-2024	1329	G	Water		X		
MW-24	11-9-2024	1335	G	Water		X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) See ARF

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Sean R Clary	11-11-2024 1000	STN			
2						
3					11/12/24 9:24	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Sean Clary	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-134752-41341.3
Client Contact: Joe Wiley	Phone: 913 980 0281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 3 of 3
Company: El Paso Energy Corporation	PWSID:	Analysis Requested		Job #:
Address: 1001 Louisiana Street Room S1905B	Due Date Requested:			Preservation Codes: A - HCL
City: Houston	TAT Requested (days): STD			
State, Zip: TX, 77002	Compliance Project: Δ Yes Δ No			
Phone: 515 253 0830	PO #: WD1040031			
Email: joe.wiley@kindermorgan.com	WO #: Johnston Federal #4_ERG_ARF_10-25-2024			
Project Name: Johnston Federal #4.00	Project #: 40015823			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260D - BTEX - 8260	Special Instructions/Note:
			Preservation Code:		X	A
MW-25	11-9-2024	1341	G	Water	X	
				Water		
				Water		
				Water		
				Water		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) See ARF

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sean R Clary	11-11-2024 1000	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/12/24 9:24	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0 IR11

Login Sample Receipt Checklist

Client: Stantec Consulting Services, Inc. Job Number: 400-265794-1

Login Number: 265794 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Beecher (Roberts), Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C IR11
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services, Inc. Job ID: 400-265794-1
Project/Site: Johnston Federal #4.00

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

APPENDIX G

NMOSE Permits

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Scott A. Verhines, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

October 31, 2013

File Nbr: SJ-4067

El Paso CGP Company
1001 Louisiana Street, Room 956l
Houston, TX 77002

Greetings:

Greetings:

Enclosed are your copies of the above numbered permit that has been approved subject to the conditions set forth on the approval page and the attached Conditions of Approval. A receipt verifying payment of the required fee for the permit is also attached.

Please pay special attention to the Conditions of Approval attached to the permit, as these include important dates and obligations that must be met in order to maintain the validity of the permit. If the Conditions of Approval are not met, the permit may be canceled.

If you have any questions regarding this action, please feel free to contact me at (505) 334-5471.

Sincerely,

Blaine A. Watson

Blaine A. Watson, P.G.
District V Manager
Water Rights Division

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4067 File
WATERS
National EWP, Attn: Bob Nix, 5566 Arrow Highway, Montclair, CA 91763 (electronically)

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ALBUQUERQUE OFFICE

OFFICIAL RECEIPT NUMBER: 1-51839 DATE: 10/15/2013 FILE NO.: (12) of these fees ($60) apply to File SJ-4067 POD1-POD12

TOTAL: 135.00 RECEIVED: ONE Hundred Thirty-Five 00/100 DOLLARS CHECK NO.: _____ CASH: X

PAYOR: BRIAN WYDOSKE ADDRESS: _____ CITY: _____ STATE: _____

BY: _____ RECEIVED BY: CDP

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office. If you make an error, void original and all copies and submit to Program Support/ASD along with other valid receipts.

A. Ground Water Rights Filing Fees

1.	Declaration of Water Right	$ 1.00
2.	Application to Appropriate or Supplement Domestic 72-12-1 Well	$125.00
3.	Application for Stock Well	$ 5.00
4.	Application to Repair or Deepen 72-12-1 Well	$ 75.00
5.	Application for Replacement 72-12-1 Well	$ 75.00
6.	Application to Change Purpose of Use 72-12-1 Well	$ 75.00
7.	Application to Appropriate Irrig., Mun., or Comm. Use	$ 25.00
8.	Application for Supplemental Non 72-12-1 Well	$ 25.00
9.	Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
10.	Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
11.	Application to Change Point of Diversion and Place and/or Purpose of Use	$ 50.00
12.	Application for Extension of Time	$ 25.00
13.	Proof of Application to Beneficial Use	$ 25.00
14.	Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
15.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
16.	Application for Test, Expl. Observ. Well	$ 5.00
17.	Change of Ownership of Water Right	$ 2.00
18.	Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
19.	Application for Replacement Well Non 72-12-1 Well	$ 5.00
20.	Notice of Intent	$ 25.00

B. Surface Water Rights Filing Fees

1.	Declaration of Water Right	$ 10.00
2.	Amended Declaration	$ 25.00
3.	Declaration of Livestock Water Impoundment	$ 10.00
4.	Application for Livestock Water Impoundment	$ 10.00
5.	Application to Appropriate	$ 25.00
6.	Notice of Intent to Appropriate	$ 25.00
7.	Application to Change Point of Diversion	$100.00
8.	Application to Change Place and/or Purpose of Use	$100.00
9.	Application to Change Point of Diversion and Place and/or Purpose of Use	$200.00
10.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$200.00
11.	Application for Extension of Time	$ 50.00
12.	Supplemental Well to a Surface Right	$100.00
13.	Return Flow Credit	$100.00
14.	Proof of Completion of Works	$ 25.00
15.	Proof of Application of Water to Beneficial Use	$ 25.00
16.	Water Development Plan	$100.00
17.	Change of Ownership of Water Right	$ 5.00

C. Miscellaneous Fees

1.	Application for Well Driller's License	$50.00
2.	Application for Renewal of Well Driller's License	$50.00
3.	Application to Amend Well Driller's License	$50.00

D. Reproduction of Documents

_____ @ 0.20¢/copy $_____

_____ Map(s) $_____

E. Certification $_____

F. Other $_____

G. Comments:

~~Kirt Lands AFE~~ CDP
National Exploration
Well & Pumps
Contact Bob Nix

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2013 OCT 31 AM 11:45

File No. SJ-4067 POD1-POD12

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER

(check applicable box):

For fees, see State Engineer website http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal
☐ Exploratory	☐ Construction Site De-Watering	☐ Other (Describe):
☒ Monitoring	☐ Mineral De-Watering	

A separate permit will be required to apply water to beneficial use.

☒ Temporary Request - Requested Start Date: **10/31/13** Requested End Date: **Unknown**

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: **El Paso CGP Company**	Name: **National EWP**
Contact or Agent: check here if Agent ☒ **Daniel Wade (MWH Americas, Inc.)**	Contact or Agent: check here if Agent ☐ **Bob Nix**
Mailing Address: **1001 Louisiana Street, Room 956l**	Mailing Address: **5566 Arrow Highway**
City: **Houston**	City: **Montclair**
State: **TX** Zip Code: **77002**	State: **CA** Zip Code: **91763**
Phone: **303-912-2625** ☐ Home ☒ Cell Phone (Work): **303-291-2250**	Phone: **702-715-5811** ☐ Home ☒ Cell Phone (Work): **909-931-4014**
E-mail (optional): **daniel.a.wade@mwhglobal.com**	E-mail (optional): **bnix@nationalewp.com**

FOR OSE INTERNAL USE Application for Permit, Form wr-07, Rev 4/12/12

File Number: SJ-4067 POD1-POD12	Trn Number:
Trans Description (optional):	
Sub-Basin:	
PCW/LOG Due Date: 10/31/2014	

2. **WELL(S)** Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☒ NM State Plane (NAD83) (Feet)
☒ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☐ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
MW-1	2740973.561	2133363.576	
MW-2	2740998.663	2133345.405	
MW-3	2741013.562	2133362.704	
MW-4	2741038.923	2133485.313	
MW-5	2740971.024	2133293.379	

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☒ Yes ☐ No **If yes, how many** 7

Other description relating well to common landmarks, streets, or other: **Natural Gas Meter - Johnston Federal #4**

Well is on land owned by: **Dewey & Marcella Sexton**

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ☐ Yes ☒ No
If yes, how many_____

Approximate depth of well (feet): **65**	Outside diameter of well casing (inches): **2.00**
Driller Name: **Robert Williams**	Driller License Number: **WD-1210**

3. **ADDITIONAL STATEMENTS OR EXPLANATIONS**

Groundwater monitoring wells are being installed at the site in order to delineate the extent of petroleum hydrocarbon contamination in groundwater. The wells will be abandoned according to State of New Mexico regulations once a no furthur action determiantion has been granted by the New Mexico Oil Conservation Division.

The five wells, MW-1 through MW-5, were previously installed at the noted locations without a permit. They are being permitted with seven new wells (MW-6 through MW-12) in order that they will be properly documented and available for continued use by the applicant.

FOR OSE INTERNAL USE — Application for Permit, Form wr-07

File Number: SJ-4067 POD1-POD12	Trn Number:

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2013 OCT 31 AM 11:45

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application.

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	**Pollution Control and/or Recovery:** ☐ Include a plan for pollution control/recovery, that includes the following ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Construction De-Watering:** ☐ Include a description of the proposed dewatering operation. ☐ The estimated duration of the operation. ☐ The maximum amount of water to be diverted. ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	**Mine De-Watering:** ☐ Include a plan for pollution control/recovery, that includes the following ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.		**Geo-Thermal:** ☐ Include a description of the geothermal heat exchange project, ☐ The amount of water to be diverted and re-injected for the project, ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Daniel Wade & Bob Nix
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 31st day of October 20 13, for the State Engineer.

Scott A. Verhines, P.E. State Engineer

By: Blaine A. Watson
Signature

Blaine A. Watson, P.G.
Print

Title: District V Manager, Water Rights Division
Print

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number: SJ-4067 POD1-POD12 Trn Number:

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2013 OCT 31 AM 11:45

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 12 Total number of pages attached to the application: 1

☐ Surface Point of Diversion OR	☒ Well
Name of ditch, acequia, or spring:	NA
Stream or water course:	Na
Tributary of:	Na

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☒ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☐ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: **MW-6**	X or Longitude **2740991.232** Y or Latitude **2133385.803**		Other Location Description:
POD Number: **MW-7**	X or Longitude **2741047.167** Y or Latitude **2133362.096**		Other Location Description:
POD Number: **MW-8**	X or Longitude **2741024.036** Y or Latitude **2133328.064**		Other Location Description:
POD Number: **MW-9**	X or Longitude **2740940.613** Y or Latitude **2133362.126**		Other Location Description:
POD Number: **MW-10**	X or Longitude **2740980.194** Y or Latitude **2133320.722**		Other Location Description:
POD Number: **MW-11**	X or Longitude **2741003.697** Y or Latitude **2133304.094**		Other Location Description:
POD Number: **MW-12**	X or Longitude **2740969.613** Y or Latitude **2133262.159**		Other Location Description:
POD Number:	X or Longitude Y or Latitude		Other Location Description:
POD Number:	X or Longitude Y or Latitude		Other Location Description:

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: SJ-4067 POD1-POD12	Trn Number:
Trans Description (optional):	

1. This application is approved without publication, in accordance with OSE Ground Water Regulation 1-17.2, provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and is further subject to the following conditions of approval:

Permittee(s): El Paso CGP Company
via Daniel Wade/MWH Americas, Inc., as Agent
1001 Louisiana Street, Room 956l
Houston, TX 77002

and

National EWP
5566 Arrow Highway
Montclair, CA 91763

Permit Number: SJ-4067

Application File Date: October 31, 2013

Priority: N/A

Source: Groundwater

Point(s) of Diversion: SJ-4067 POD1-POD12 are groundwater monitoring wells located on land owned by Dewey & Marcella Sexton, in rural San Juan County, New Mexico; near the Johnston Fed#4 well location. The PODs are located within the SW/4 SE/4 SW/4 of Section 27, Township 31 North, Range 9 West, NMPM, at point locations (NM State Plane, West, NAD83) described as follows:

POD Name and Owner's Well Identification	X (ft)	Y (ft)
SJ-4067 POD1 (MW-1)	2,740,973.561	2,133,363.576
SJ-4067 POD2 (MW-2)	2,740,998.663	2,133,345.405
SJ-4067 POD3 (MW-3)	2,741,013.562	2,133,362.704
SJ-4067 POD4 (MW-4)	2,741,038.923	2,133,485.313
SJ-4067 POD5 (MW-5)	2,740,971.024	2,133,293.379
SJ-4067 POD6 (MW-6)	2,740,991.232	2,133,385.803
SJ-4067 POD7 (MW-7)	2,741,047.167	2,133,362.096
SJ-4067 POD8 (MW-8)	2,741,024.036	2,133,328.064
SJ-4067 POD9 (MW-9)	2,740,940.613	2,133,362.126
SJ-4067 POD10 (MW-10)	2,740,980.194	2,133,320.722
SJ-4067 POD11 (MW-11)	2,741,003.697	2,133,304.094
SJ-4067 POD12 (MW-12)	2,740,969.613	2,133,262.160

Purpose of Use: Monitoring

Place of Use: N/A

Amount of Water: N/A

2. No water shall be appropriated and beneficially used under this permit.

3. No water shall be diverted from the well(s) except for sampling purposes, and upon completion of monitoring activities the well(s) shall be plugged in accordance with Subsection C of 19.27.4.31K NMAC, unless a permit to use water is acquired from the Office of the State Engineer.

4. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring required for the current release investigation, and any associated remediation, so long as they remain in good repair. A new permit application shall be obtained from the Office of the State Engineer prior to replacing the well(s) or for any change in use as approved herein.

5. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited. The following conditions provide further specific well construction guidance related to the subject well(s).

6. NMOSE Regulation 19.27.4 NMAC requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, a New Mexico licensed Well Driller shall drill and/or plug the subject well(s). On-site supervision of well drilling by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor is required.

7. The permittee has not indicated whether artesian conditions will be encountered at the proposed well location(s). If artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing of artesian wells shall be followed.

8. A Well Record itemizing the as-built well design and materials used for each well shall be filed with the State Engineer (NMOSE, 100 Gossett Drive, Suite A, Aztec, NM, 87410), within 20 days after completion of the well(s), but no later than 1 year from the date of approval of this permit.

9. If the required Well Record documentation is not received within 1 year of the date of permit approval, this permit will automatically expire.

10. No Plugging Plan of Operations was submitted with the application. When the permittee receives approval or direction to permanently abandon the well(s), this office should be notified and a plugging plan should be provided for review, modification as necessary,

and approval. Approval of a plugging plan is required *prior* to initiation of *any* well plugging activities.

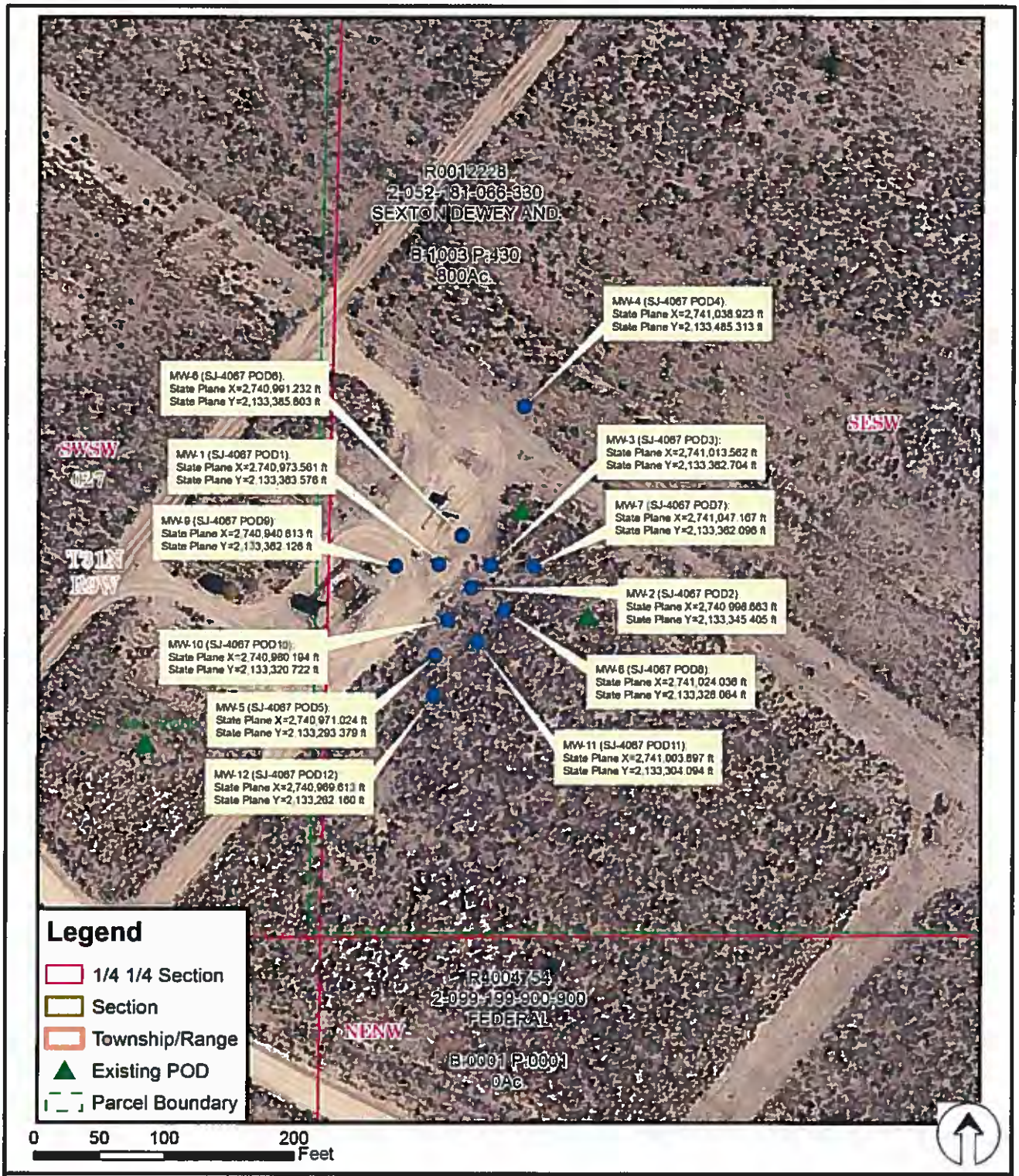
11. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation, require more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

12. The State Engineer retains jurisdiction of this permit.

The application for non-consumptive use for well(s) SJ-4067 POD1–POD12 , submitted on October 31, 2013 , is hereby approved, with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 31st day of October, A.D. 2013.
Scott A. Verhines, P.E., State Engineer

By: Blaine A. Watson
Blaine A. Watson, P.G.
District V Manager, Water Rights Division



Map Description: El Paso & NEWP Fed#4 Data sources: File number: SJ-4067 (POD1-POD12) Aerial Photography: 2013	Coordinate System: NAD83 State Plane New Mexico (West) US feet	**STATE OF NEW MEXICO** **Office of the State Engineer** **Scott A. Verhines, P.E.** **State Engineer** **Aztec District Office** **Well Location Map**	

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Scott A. Verhines, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

July 16, 2014

Michael Alowitz
MWH Americas, Inc.
11153 Aurora Ave.
Des Moines, IA 50325

RE: Permit Approval to Drill Non-Consumptive Wells, SJ-4067 POD13-POD20 and Plugging Plan Approval for SJ-4067 POD5 (MW-5), El Paso CGP Company, LLC – Johnston Fed #4

Dear Mr. Alowitz:

On July 9, 2014, the New Mexico Office of the State Engineer received an application for a permit to drill eight new groundwater monitoring wells for the above referenced location. A Plugging Plan of Operations was also included for abandonment of one existing monitoring well (SJ-4067 POD5). Enclosed are copies of the above numbered permit and plugging plan that have been approved subject to the conditions set forth on the approval pages and in the attached Conditions of Approval. Also enclosed is a receipt for the fees paid.

Please be aware that there are deadlines to submit well records for the newly installed monitoring wells and a plugging record for the well to be abandoned. These deadlines can be found in the attached Conditions of Approval in Conditions 8 and 11.h, respectively.

If you have any questions regarding this permitting action, please feel free to contact me at (505) 334-4282.

Sincerely,

Kimberly Kirby
Water Resource Specialist
Water Rights Division – District V

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4067 File
WATERS
Joseph Wiley, Kinder Morgan, Inc., via email: joe_wiley@kindermorgan.com
Bryan Nydoske, National EWP, via email: bnydoske@nationalewp.com

NMOSE Permit to Drill a Non-Consumptive Well(s) - Conditions of Approval
SJ-4067 POD13 – POD20

The New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): El Paso CGP Company, LLC
(via Michael Alowitz, MWH Americas, Inc., as Agent)
1001 Louisiana St, Room 1310 B
Houston, TX 77002

and

National EWP
3621 Highway 47
Peralta, NM 87042

Permit Number: SJ-4067

Application File Date: July 9, 2014

Priority: N/A

Source: Groundwater

Point(s) of Diversion: SJ-4067 POD13–POD20, eight newly proposed groundwater monitoring wells associated with a site investigation at the Johnston Fed #4 release site. Additionally, existing SJ-4067 POD5 is to be plugged and abandoned. The wells are currently or to be located on land owned by Dewey and Marcella Sexton, in San Juan County, New Mexico. The PODs are to be located within the SW/4 SW/4 of Section 27, Township 31 North, Range 9 West, NMPM, at the following approximate point locations (State Plane – New Mexico West, NAD83; feet).

Table 1: New Monitoring Wells proposed for Installation.

POD Name and Owner's Well Identification	Proposed X	Proposed Y
SJ-4067 POD13 (MW-13)	2,740,971.351	2,133,288.208
SJ-4067 POD14 (MW-14)	2,741,008.367	2,133,260.848
SJ-4067 POD15 (MW-15)	2,741,041.896	2,133,287.403
SJ-4067 POD16 (MW-16)	2,741,074.084	2,133,326.833
SJ-4067 POD17 (MW-17)	2,741,093.397	2,133,362.508

POD Name and Owner's Well Identification	Proposed X	Proposed Y
SJ-4067 POD18 (MW-18)	2,741,025.266	2,133,397.647
SJ-4067 POD19 (MW-19)	2,740,947.210	2,133,419.910
SJ-4067 POD20 (MW-20)	2,740,994.687	2,133,339.709

Table 2: Existing Permitted Monitoring Well to be Plugged and Abandoned.

POD Name and Owner's Well Identification	X	Y
SJ-4067 POD5 (MW-5/TMW-5) to be plugged	*2,740,971.024*	*2,133,293.379*

Purpose of Use: Groundwater monitoring

Place of Use: N/A

Amount of Water: N/A

2. No water shall be appropriated and beneficially used from any wells approved under this permit.

3. No water shall be diverted from the well(s) except for sampling purposes, and upon completion of monitoring activities the well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC, unless a permit to use water is acquired from the NMOSE.

4. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring required for the current site investigation and any associated remediation, so long as they remain in good repair. A new permit shall be obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.

5. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited. Based on the proposed well construction information provided regarding the subject well(s), the following variances have been provided from 19.27.4.29 and 19.27.4.30 NMAC.

    a. Subsection C of 19.27.4.29 NMAC requires that drilling equipment be disinfected with a chlorine bleach solution. Due to the environmental investigative purpose of these wells, chlorine may bias or degrade contaminates under investigation in the soil and groundwater samples to be collected. Therefore, NMOSE is granting a variance to allow for steam and the use of a suitable cleaning solution for the cleaning of drilling equipment between the drilling of each borehole/well.

b. Paragraph (2) of Subsection A of 19.27.4.30 NMAC requires that for wells completed less than 20 feet below land surface, the seal be placed from land surface to the bottom of the blank casing. However, due to the need for collection of groundwater samples at particular and discrete intervals, and a screened interval that accounts for fluctuations in the water levels, the seal may be placed above the filter pack which may be extended up to two feet above the top of the screened interval.

6. In accordance with 19.27.4 NMAC, any person engaged in the business of well drilling within New Mexico is required to obtain a Well Driller License issued by NMOSE. A New Mexico licensed Well Driller shall drill and/or plug the subject well(s). On-site supervision of well drilling is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor.

7. The permittee has not indicated whether artesian conditions will be encountered at the proposed well location(s). If artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.

8. A Well Record documenting the as-built well construction and materials used shall be filed for each of the new wells in accordance with Subsection K of 19.27.4.29 NMAC. **Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 20 days after completion of the well(s).** Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit.

9. If the required Well Record documentation is not received within one year of the date of permit approval, this permit will automatically expire.

10. When the permittee receives approval or direction to permanently abandon the well(s), the District V Office of NMOSE shall be notified and provided with a plugging plan for review, modification as necessary, and approval. Approval of a plugging plan is required *prior* to initiation of *any* well plugging activities. The well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC.

11. The July 9, 2014, application also proposes to plug and abandon existing monitoring well SJ-4067 POD5 (MW-5/TMW-5). Plugging will be performed by National EWP under well driller license WD-1210. The well shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC, the approved Plugging Plan of Operations and the following conditions of approval:

Well Name	Casing – Inside Diameter (inches)	Depth-to-Water (feet)	Total Well Depth (feet)	Theoretical Plugging Volume (gallons)	Proposed Plugging Volume (gallons)
SJ-4067 POD5	2-inch PVC	~50	65	180.50	181

a. The Well Plugging Plan submitted proposes to completely overdrill the well to remove the two-inch PVC casing, with an 8.25-inch auger, creating a 8.25-inch borehole to be grouted completely from bottom to surface. When re-drilling the well, appropriate methods shall be used to prevent deviation from the original casing and borehole.

b. Obstructions in the well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

c. The theoretical volume of sealant required for abandonment of a 8.25-inch borehole is approximately 2.78 gallons per linear foot of casing. The plugging plan proposes approximately 65 feet total linear footage of 8.25-inch diameter borehole for one monitoring well. Based on the reported total depth of the well (65 ft), the minimum theoretical plugging volume for the well should not be less than 180.5 gallons; however, the actual plugging volume needed is subject to field verification of the actual pluggable depth. Field verification shall include sounding the actual pluggable depth of each well/borehole and multiplying this depth by the correct volume factor for the casing/borehole diameter.

d. The Well Plugging Plan of Operations submitted proposes the use of Portland Type I/II cement as the plugging sealant. The water mixed with the cement to create the plugging grout shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. The mix rate proposed in the plan is approximately 5.8 gallons of water per 94-lb sack of cement. If necessary for pumpability, the use of a slightly higher amount of cement mixing water is acceptable as long as it remains at or below the six gallons per 94-lb sack limit allowed by NMOSE.

   This plugging plan proposes the addition of 5% bentonite powder to the Portland cement slurry. Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of six gallons of water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

e. Placement of the sealant within the well(s) shall be by pumping through a tremie pipe extended to near the bottom of the well and kept below the top of the slurry column

(i.e., immersed in the slurry) as the well is plugged from bottom upwards in a manner that displaces the standing water column.

f. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface maybe filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

g. Witnessing of the plugging work by NMOSE will not be required, but shall be facilitated if an NMOSE observer is onsite. NMOSE witnessing may be requested during normal work hours by calling the NMOSE - District V Office at (505) 334-4571, at least 48 hours in advance. NMOSE inspection will occur depending on personnel availability.

h. **Within 20 days after completion of well plugging, a complete well Plugging Record shall be filed with the State Engineer** in accordance with Paragraph (3) of Subsection C of 19.27.4.30 NMAC for each well plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The required well plugging record form is available at http://www.ose.state.nm.us/PDF/WellDrillers/WD-11.pdf.

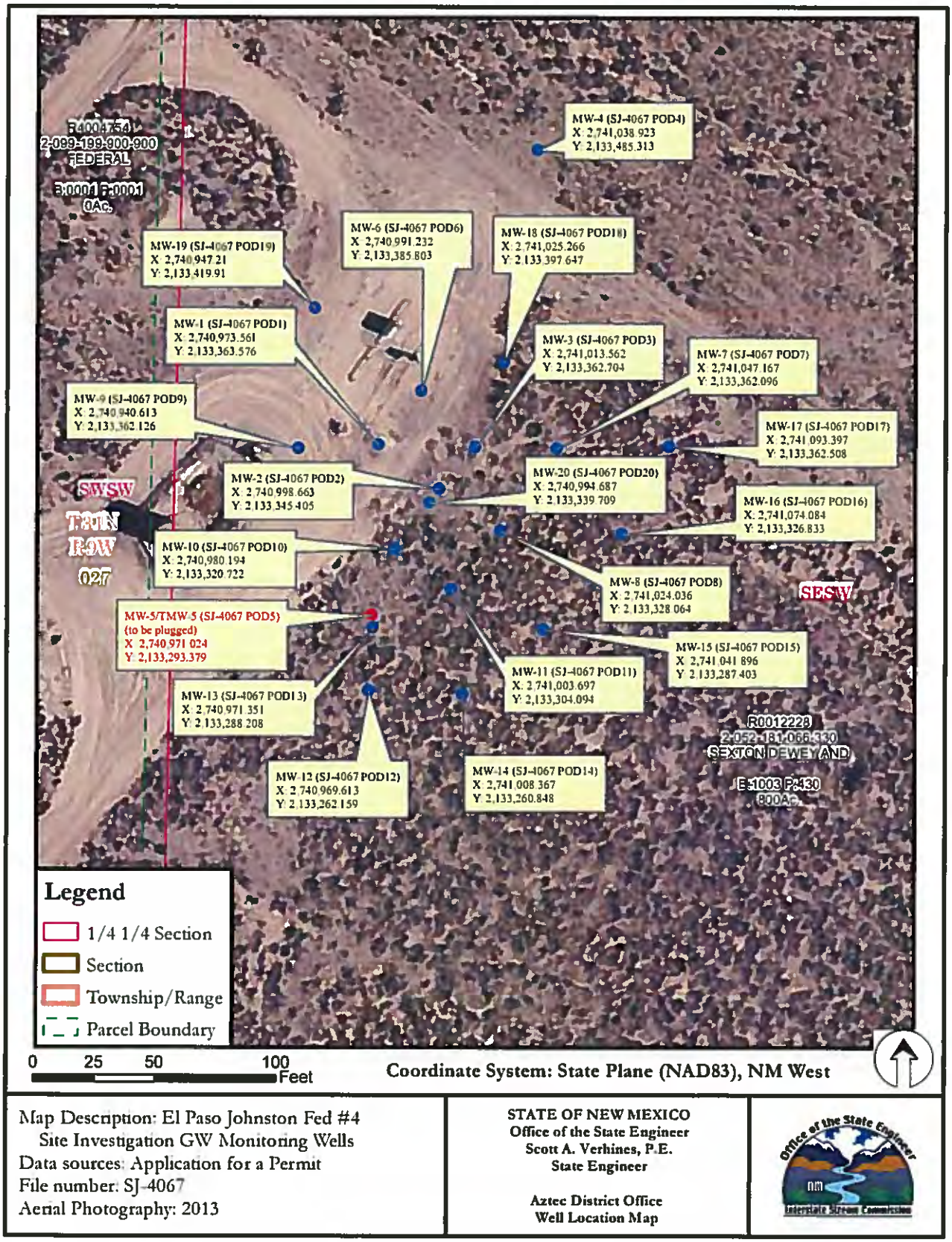
12. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

13. The State Engineer retains jurisdiction of this permit.

The application for non-consumptive use for well(s) SJ-4067 POD13–POD20, submitted on July 9, 2014, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 16th day of July, A.D. 2014.
Scott A. Verhines, P.E., State Engineer

By: _____
Kimberly D. Kirby, Water Resource Specialist
District V, Water Rights Division



Map Description: El Paso Johnston Fed #4
Site Investigation GW Monitoring Wells
Data sources: Application for a Permit
File number: SJ-4067
Aerial Photography: 2013

STATE OF NEW MEXICO
Office of the State Engineer
Scott A. Verhines, P.E.
State Engineer

Aztec District Office
Well Location Map

File No. SJ-4067 POD13-POD20

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2014 JUL -9 AM 11:38

Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal
☐ Exploratory	☐ Construction Site De-Watering	☐ Other (Describe)
☒ Monitoring	☐ Mineral De-Watering	

A separate permit will be required to apply water to beneficial use.

☒ Temporary Request - Requested Start Date: **7/27/14** Requested End Date: **Unknown**

Plugging Plan of Operations Submitted? ☒ Yes ☐ No OSE Notation: Plugging plan is for existing well MW-5 (SJ-4067 POD5).

1. APPLICANT(S)

Name: **El Paso CGP Company, L.L.C.**	Name: **National EWP**
Contact or Agent: check here if Agent ☒ **Mike Alowitz (MWH Americas, Inc.)**	Contact or Agent: check here if Agent ☐ **Bryan Nydoske**
Mailing Address: **1001 Louisiana Street, Room 1310B**	Mailing Address: **3621 Highway 47**
City: **Houston**	City: **Peralta**
State: **TX** Zip Code: **77002**	State: **NM** Zip Code: **87042**
Phone: **515-333-3880** ☐ Home ☒ Cell Phone (Work): **515-253-0830**	Phone: **505-991-3578** ☐ Home ☒ Cell Phone (Work): **505-865-5222**
E-mail (optional): **michael.j.alowitz@mwhglobal.com**	E-mail (optional): **bnydoske@nationalewp.com**

FOR OSE INTERNAL USE Application for Permit, Form wr-07, Rev 4/12/12

File Number: SJ-4067 POD13-POD20	Trn Number:
Trans Description (optional):	
Sub-Basin:	
PCW/LOG Due Date: July 16, 2015	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☒ NM State Plane (NAD83) (Feet)
☒ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☐ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
MW-1 (SJ-4067 POD1; previously permitted 10-31-13)	2740973.561	2133363.576	T. 31N, R. 9W, Sec. ~~XX~~ 27
MW-2 (SJ-4067 POD2; previously permitted 10-31-13)	2740998.663	2133345.405	T. 31N, R. 9W, Sec. ~~XX~~ 27
MW-3 (SJ-4067 POD3; previously permitted on 10-31-13)	2741013.562	2133362.704	T. 31N, R. 9W, Sec. ~~XX~~ 27
MW-4 (SJ-4067 POD4;previously permitted 10-31-13)	2741038.923	2133485.313	T. 31N, R. 9W, Sec. ~~XX~~ 27
MW-5/TMW-5 (SJ-4067 POD5; previously permitted 10-31-13)	2740971.024	2133293.379	T. 31N, R. 9W, Sec. ~~XX~~ 27

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2014 JUL -9 AM 11:38

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☒ Yes ☐ No **If yes, how many** ~~XX~~ 8

Other description relating well to common landmarks, streets, or other: **Johnston Fed #4**

Well is on land owned by: **Dewey And Marcella Sexton**

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No
If yes, how many_____

Approximate depth of well (feet): **65.00**	Outside diameter of well casing (inches): **2.00**
Driller Name: **Brian Nydoske**	Driller License Number: **WD-1210**

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Twelve monitoring wells (MW-1 through MW-4, TMW-5, and MW-6 through MW-12) exist at the site. Eight additional monitoring wells (MW-13 through MW-20) are proposed to be installed. TMW-5 is proposed to be plugged and abandoned.

Groundwater monitoring wells are being installed to provide further delineation of groundwater impacts and to establish the groundwater gradient in order to move the site toward closure. Groundwater will be sampled from the wells twice each year until site closure. Sampling will be performed with minimal removal of water. The wells will be abandoned according to State of New Mexico regulations once a no furthur action determination has been granted by the New Mexico Oil Conservation Division.

FOR OSE INTERNAL USE — Application for Permit, Form wr-07

File Number: SJ-4067 POD13-POD20	Trn Number:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following. ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Geo-Thermal:** ☐ Include a description of the geothermal heat exchange project, ☐ The amount of water to be diverted and re-injected for the project, ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), **Mike Alowitz and Bryan Nydoske**
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

2014 JUL -9 AM 11:39
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 16th day of July 20 14, for the State Engineer,

Scott A. Verhines, PE, State Engineer

By: Signature Kimberly Kirby
Print

Title: Water Resource Spec., Water Rights Division, District V
Print

FOR OSE INTERNAL USE — Application for Permit, Form wr-07

File Number: SJ-4067 POD13-POD20	Trn Number:

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 8 Total number of pages attached to the application: 1

☐ Surface Point of Diversion OR	☒ Well
Name of ditch, acequia, or spring:	Na
Stream or water course:	Na
Tributary of:	Na

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☒ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☐ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: **MW-13** (SJ-4067 POD13)	X or Longitude **2740971.351** Y or Latitude **2133288.208**		Other Location Description:
POD Number: **MW-14** (SJ-4067 POD14)	X or Longitude **2741008.367** Y or Latitude **2133260.848**		Other Location Description:
POD Number: **MW-15** (SJ-4067 POD15)	X or Longitude **2741041.896** Y or Latitude **2133287.403**		Other Location Description:
POD Number: **MW-16** (SJ-4067 POD16)	X or Longitude **2741074.084** Y or Latitude **2133326.833**		Other Location Description:
POD Number: **MW-17** (SJ-4067 POD17)	X or Longitude **2741093.397** Y or Latitude **2133362.508**		Other Location Description:
POD Number: **MW-18** (SJ-4067 POD18)	X or Longitude **2741025.266** Y or Latitude **2133397.647**		Other Location Description:
POD Number: **MW-19** (SJ-4067 POD19)	X or Longitude **2740947.210** Y or Latitude **2133419.910**		Other Location Description:
POD Number: MW-20 (SJ-4067 POD20)	X or Longitude **2740994.687** Y or Latitude **2133339.709**		Other Location Description:
POD Number:	X or Longitude Y or Latitude		Other Location Description:

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2014 JUL -9 AM 11:39

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: SJ-4067 POD13-POD20	Trn Number:
Trans Description (optional):	

SJ-4067 POD5

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Numbers (Well Numbers) for wells to be plugged: Monitoring well ID is MW-5/TMW-5. The POD numbers are unknown. SJ-4067 POD5

Name of well owner: El Paso CGP Company, LLC

Mailing address: 1001 Louisiana Street, Room 1310B

City: Houston State: TX Zip code: 77002

Phone number: 713-420-3475 E-mail: joe_wiley@kindermorgan.com

2014 JUL -9 AM 11:39
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: National EWP

New Mexico Well Driller License No.: WD-1210 Expiration Date: 10/31/2015

IV. WELL INFORMATION:

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

1) MW-5/TM-5 GPS Well Location:
Latitude: 36 deg. 51 min. 45.13515 sec.
Longitude: 107 deg. 46 min. 19.97116 sec., NAD 83

2) Reason(s) for plugging well(s): Monitoring well MW-5/TMW-5 was constructed to be a temporary monitoring point in 2006. It will be replaced with a permanent well.

3) Was well used for any type of monitoring program? Yes. If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? No. If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: ~50 feet below land surface/feet above land surface (circle one)

6) Depth of the well: Approximately 65 feet. Inside diameter of innermost casing: 2.067 inches.

7) Casing material: 2-inch PVC

8) The well was constructed with:

_____ an open-hole production interval, state the open interval: _____

___X___ a well screen or perforated pipe, state the screened interval(s): Approximately 49 feet to 64 feet bgs.

9) What annular interval surrounding the artesian casing of this well is cement-grouted? NA.

10) Was the well built with surface casing? No. If yes, is the annulus surrounding the surface casing grouted or otherwise sealed?_____If yes, please describe: _____

11) Has all pumping equipment and associated piping been removed from the well? Yes. If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The monitoring well is non-artesian and will be plugged with cement/bentonite grout mix from TD to grade. The well will be overdrilled with 8.25-inch OD augers and the borehole filled with approximately 181 gallons of cement/bentonite mix delivered by tremmie pipe.

2) Will well head be cut-off below land surface after plugging? The entire well casing will be drilled out.

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: For an 8.25'' borehole, 181 gallons

4) Type of Cement proposed: Type I/II Portland Cement/Bentonite Grout mix. The bentonite will be hydrated and mixed separately.

5) Proposed cement grout mix: 5.8 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be:_____ batch-mixed and delivered to the site

___X___ mixed on site

7) Grout additives requested, and percent by dry weight relative to cement: 5 % bentonite powder will be added to the

cement with .65 gallons water per 1%.

8) Additional notes and calculations: Bentonite will be hydrated and mixed separately with 0.65 gallons water per1%.

VII. **ADDITIONAL INFORMATION:** List additional information below, or on separate sheet(s):

The wells to be plugged are part of a groundwater monitoring network at the site for the analysis of petroleum constituents (BTEX) in groundwater under the New Mexico Oil Conservation Division.

VIII. **SIGNATURE:**

I, Bryan Nydeske, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Signature of Applicant — Date: 7/8/14

IX. **ACTION OF THE STATE ENGINEER:**

This Well Plugging Plan of Operations is:

X Approved subject to the attached conditions.
_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 16th day of July, 2014

Scott A. Verhines, State Engineer

By: Kimberly Kirby, Water Resource Spec.
Water Rights Division, District V

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			Ground surface/grade.
Bottom of proposed interval of grout placement (ft bgl)			The total depth of the well (~65-feet)' bgs.
Theoretical volume of grout required per interval (gallons)			Approximately 181 gallons.
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			5.8 gallons of water per 94-pound sack.
Mixed on-site or batch-mixed and delivered?			Mixed on-site.
Grout additive 1 requested			Bentonite powder.
Additive 1 percent by dry weight relative to cement			5%
Grout additive 2 requested			na
Additive 2 percent by dry weight relative to cement			na

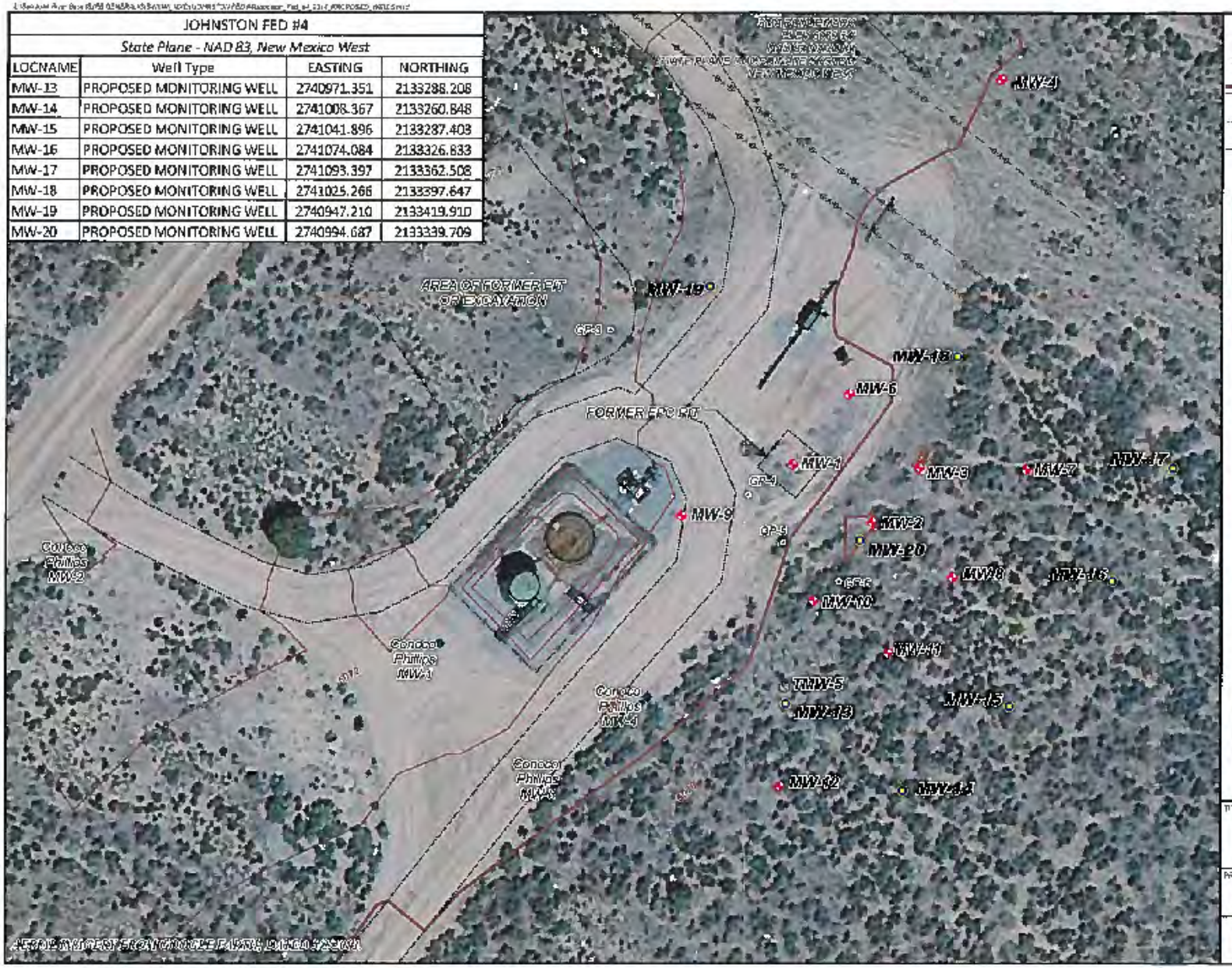
TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

ATTACHMENT A

MWH

JOHNSTON FED #4			
State Plane - NAD 83, New Mexico West			
LOCNAME	Well Type	EASTING	NORTHING
MW-13	PROPOSED MONITORING WELL	2740971.351	2133288.208
MW-14	PROPOSED MONITORING WELL	2741008.367	2133260.848
MW-15	PROPOSED MONITORING WELL	2741041.896	2133287.403
MW-16	PROPOSED MONITORING WELL	2741074.084	2133326.833
MW-17	PROPOSED MONITORING WELL	2741093.397	2133362.508
MW-18	PROPOSED MONITORING WELL	2741025.266	2133397.647
MW-19	PROPOSED MONITORING WELL	2740947.210	2133419.910
MW-20	PROPOSED MONITORING WELL	2740994.687	2133339.709



LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- FORMER PIT
- BENCHMARK
- MONITORING WELL
- PROPOSED MONITORING WELL
- MW TO BE ABANDONED
- GEOPROBE BORING LOCATION
- CONOCO PHILLIPS MONITORING WELL

SCALE IN FEET

0 30 60

2011 JUL -9 AM 11:29

OIL CONSERVATION DIVISION AZTEC, NEW MEXICO

TITLE: JOHNSTON FED #4 PROPOSED GROUNDWATER MONITORING LOCATIONS

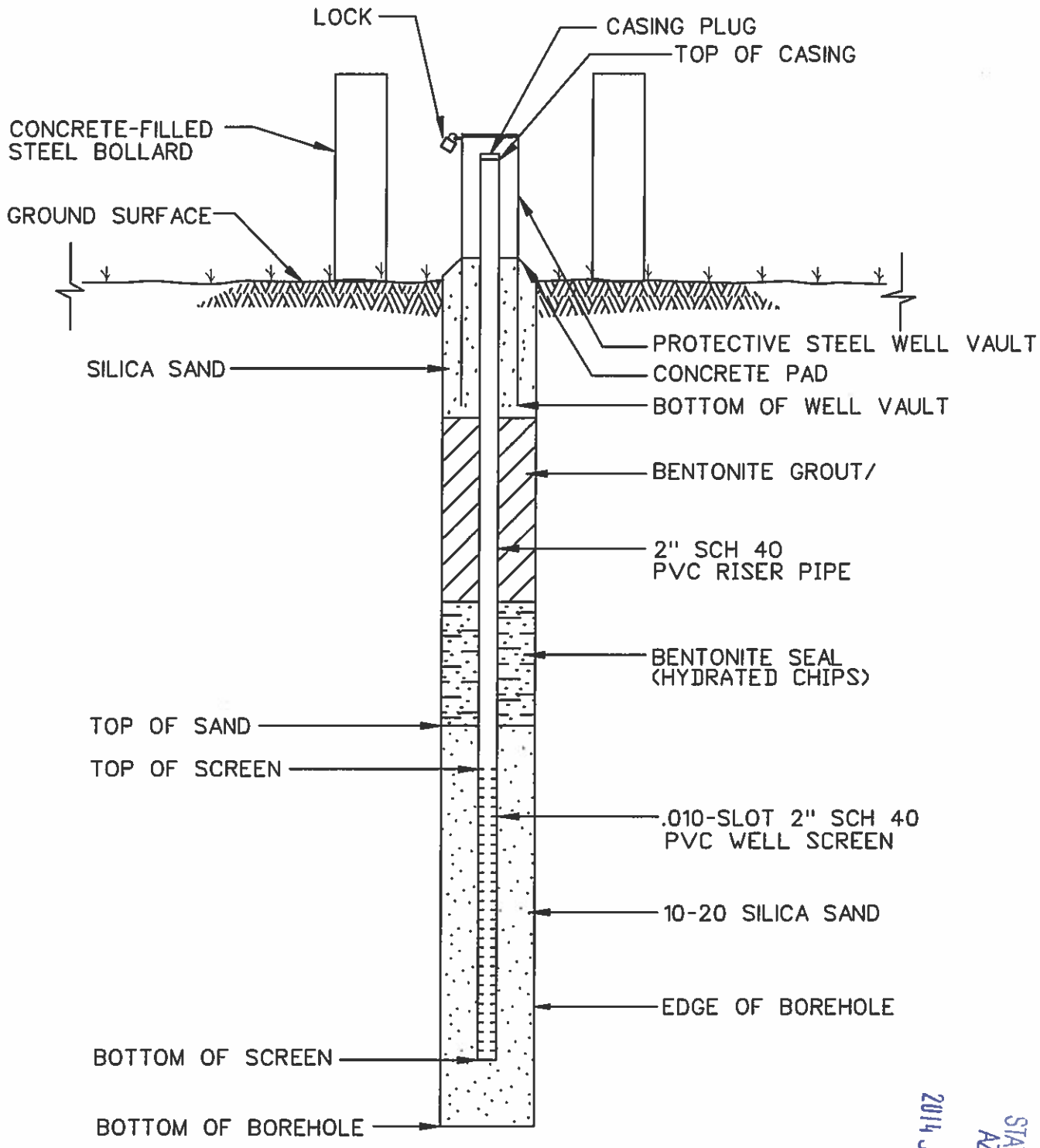
PROJECT: SAN JUAN RIVER BASIN MONITORING AND REMEDIATION SAN JUAN COUNTY, NEW MEXICO

MWH

1

ATTACHMENT B

MWH



DESIGNED BY	CHRIS HIATT	
DRAWN BY	SCOTT HANSEN	
CHECKED BY	CHRIS HIATT	
APPROVED BY	MIKE ALOWITZ	
PROJECT MANAGER	MIKE ALOWITZ	

NOT TO SCALE

TITLE: TYPICAL MONITORING WELL DETAIL (ABOVE-GRADE)

MWH

FIGURE: 2

ATTACHMENT C

MWH

MONITORING WELL INSTALLATION RECORD

Borehole # _____
Well # TMW-5
Page 1 of 1

Lodestar Services, Inc
PO Box 3861
Farmington, New Mexico 87499
(505) 334-2791

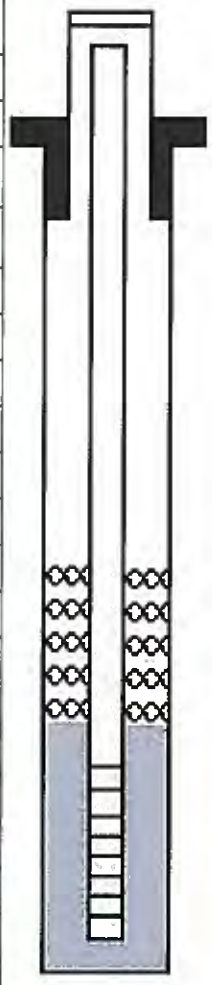
Project Name MWH Ground Water
Project Number _____ Cost Code _____
Project Location Johnston Federal #4

Elevation 6073'
Well Location 36° 51.752' N, 107° 46.333' W
GWL Depth 49.85
Installed By Envirotech

On-Site Geologist Ashley Ager
Personnel On-Site
Contractors On-Site Danny Padilla and assistant
Client Personnel On-Site

Date/Time Started 10/12/06; 1345
Date/Time Completed 10/13/06; 1315

Depths in Reference to Ground Surface		
Item	Material	Depth (feet)
Top of Protective Casing		NA
Bottom of Protective Casing		NA
Top of Permanent Borehole Casing	Sch. 40 PVC	2.3
Bottom of Permanent Borehole Casing		-63.1
Top of Concrete		
Bottom of Concrete		
Top of Grout		-0.1
Bottom of Grout		-44
Top of Well Riser	Sch. 40 PVC	2.3
Bottom of Well Riser		-63.1
Top of Well Screen	Sch. 40 PVC	-49.1
Bottom of Well Screen		-64.1
Top of Peltonite Seal	Bentonite	-44
Bottom of Peltonite Seal		-47
Top of Gravel Pack	Sand	-47
Bottom of Gravel Pack		-64.3
Top of Natural Cave-In	Coarse sand	-64.3
Bottom of Natural Cave-In		-65
Top of Groundwater		-49.85
Total Depth of Borehole		-65



Top of Protective Casing NA
Top of Riser 2.3
Ground Surface 0

Top of Seal -44

Top of Gravel Pack -47
Top of Screen -49.1

Bottom of Screen -64.1
Bottom of Borehole -65

Comments: 50 lb bags of sand used: 14 ea., 50 lb bags of bentontie used: 1 ea.

3 gal buckets of grout used: 2 ea., 50 lb bags of cement slurry used: 4

Geologist Signature Ashley L. Ager

RECORD OF SUBSURFACE EXPLORATION

LodeStar Services
P.O. Box 4465
Durango, CO 81302
303-917-6288

Borehole #:
Well #: TMW-5
Page: 1 of 4
Project Number:
Project Name: MWH Ground Water
Project Location: Johnston Federal #4

Borehole Location: 36º 51.752' N, 107º 47.333' W
GWL Depth: 55.4
Drilled By: Envirotech
Well Logged By: Ashley Ager
Date Started: 10/12/2006
Date Completed: 10/12/2006

Drilling Method: Hollow Stem Auger
Air Monitoring Method: PID

Depth (feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description	Air Monitoring	Drilling Conditions
0		0-5'	cuttings	CL: dark brown sandy to silty clay, wet (b/c of rain)	0.0	Fast
5		5-6'	split spoon	SP: light brown, poorly sorted sand, coarse grained, sub-rounded, primarily quartz mineralogy, some gravel	0.0	Fast
10		10-10.8'	split spoon	SP: same as above	0.0	Fast
15		15-16'	split spoon	SP: same as above	0.0	Fast
20						

Comments:

Geologist Signature: Ashley L. Ager

RECORD OF SUBSURFACE EXPLORATION

LodeStar Services
P.O. Box 4465
Durango, CO 81302
303-917-6288

Borehole #:
Well #: TMW-5
Page: 2 of 4
Project Number:
Project Name: MWH Ground Water
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Drilled By: Envirotech
Well Logged By: Ashley Ager
Date Started: 10/12/2006
Date Completed: 10/12/2006

Drilling Method: Hollow Stem Auger
Air Monitoring Method: PID

Depth (feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description	Air Monitoring	Drilling Conditions
20		20-20.9'	split spoon	SP: same as above	0.0	Fast
25		25-26.2'	split spoon	SP: same as above	0.0	Fast
30		30-30.5'	split spoon	SM: brown sandy silty, dry	0.0	Fast
		30.5-31.5'	split spoon	CL: Dark brown silty clay, damp	0.0	Fast
35		35-36.7'	split spoon	CL: Reddish brown sandy clay with some coarse sand	44.8	Steady
40						

Comments:

Geologist Signature: Ashley L. Ager

RECORD OF SUBSURFACE EXPLORATION

LodeStar Services
P.O. Box 4465
Durango, CO 81302
303-917-6288

Borehole #:
Well #: TMW-5
Page: 3 of 4
Project Number:
Project Name: MWH Ground Water
Project Location: Johnston Federal #4

Borehole Location: 36º 51.752' N, 107º 47.333' W
GWL Depth: 55.4
Drilled By: Envirotech
Well Logged By: Ashley Ager
Date Started: 10/12/2006
Date Completed: 10/12/2006

Drilling Method: Hollow Stem Auger
Air Monitoring Method: PID

Depth (feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description	Air Monitoring	Drilling Conditions
40		40-41.3'	split spoon	SP: Brown, poorly sorted medium sand, sub-rounded, varying mineralogies	22.0	Fast
45		45-46'	split spoon	SP: Greenish gray coarse sand, poorly sorted, damp, some HC smell, sub rounded	28.7	Fast
		46-46.5'	split spoon	SP: dark gray to black coarse sand, poorly sorted, saturated, strong HC smell	>2000	Fast
50		50-50.4'	split spoon	SW: friable, well sorted gray sand, fine grained, damp	48.7	Fast
		50.4-50.8'	split spoon	SM: friable, well sorted orangey brown sandy silt, dry	4.6	Very slow (50 strokes with hammer = 9")
55		55-55.4	split spoon	SM: Blue-gray campacted sandy silt, slightly lithified	0.0	Very slow (penetration is 1" per 5 mins with max. pressure, slow grinding on drill rig
60						

Comments:

Geologist Signature: Ashley L. Ager

RECORD OF SUBSURFACE EXPLORATION

LodeStar Services
P.O. Box 4465
Durango, CO 81302
303-917-6288

Borehole #:
Well #: TMW-5
Page: 4 of 4
Project Number:
Project Name: MWH Ground Water
Project Location: Johnston Federal #4

Borehole Location: 36º 51.752' N, 107º 47.333' W
GWL Depth: 55.4
Drilled By: Envirotech
Well Logged By: Ashley Ager
Date Started: 10/12/2006
Date Completed: 10/12/2006

Drilling Method: Hollow Stem Auger
Air Monitoring Method: PID

Depth (feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description	Air Monitoring	Drilling Conditions
60		60-60.3	split spoon	Dark brown shale, dry	0.0	Very slow, over 1 hour to complete 5'
65		62-63.5	split spoon	SW: Gray coarse sand, sub rounded, well graded, no fines	0.0	Very slow
70						
75						
80						

Comments:

Geologist Signature: Ashley L. Ager

ATTACHMENT D

MWH

PROPERTY ACCESS APPROVAL FORM

1. The undersigned property owner, Dewey / Marcella Sexton ("undersigned"), hereby give(s) permission to El Paso CGP Company (EPCGP) and its agents to enter the undersigned's property ("the property") legally described as E1/2SW1/4, Section 27, Township 31N, Range 09W.

2. This permission is specifically limited to the following activities that may be performed by an environmental consultant and its subcontractors on behalf of EPCGP:

   - Soil sampling and testing, including the drilling of soil borings and the performance of permeability tests.
   - Groundwater sampling, including the drilling and use of groundwater monitoring wells and the sampling of existing monitoring wells.
   - Installation and use of recovery and remediation wells/attendant equipment.
   - Maintaining wells and equipment.

3. The granting of this permission by the undersigned is not intended, nor should it be construed, as an admission of liability on the part of the undersigned, or the undersigned's successors and assignees, for any contamination discovered on the property.

4. The agent and its subcontractors may enter the property during normal hours of operation and may also make arrangements to enter the property at other times after agreement from the undersigned.

5. In granting this permission, the undersigned shall not be held liable for any injury, damage, or loss suffered or caused by the environmental consultant and its subcontractors while on the property.

6 EPCGP agrees to restore the property to its original condition immediately upon completion of the aforementioned activities.

Dewey A Sexton — Signature of Property Owner

10/30/13 — Date

Accepted on behalf of EPCGP by the following authorized agent:

Joseph Wiley — Signature of Agent

Joseph Wiley-Project manager — Printed Name and Title of Agent

10/30/13 — Date

El Paso CGP Company — Company

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Tom Blaine, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

June 13, 2018

El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana St, Room 1310 B
Houston, TX 77002

RE: Permit Approval to Drill Wells with no Water Right for Temporary Pollution Recovery, SJ-4067 POD21-POD23, El Paso CGP Company, LLC, Johnston Fed #4 Release Investigation

Dear Mr. Wiley:

On June 13, 2018, the New Mexico Office of the State Engineer received an application for a permit for the drilling and temporary use of three proposed new water wells for pollution recovery and groundwater monitoring purposes at the above referenced location. Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval. Also enclosed is a receipt for the fees paid.

Please be aware that there are time and extraction volume limitations for this pollution recovery permit (Condition 3 of the Condition of Approval). Also, quarterly reporting of the volumes of water extracted is required in accordance with Condition 4 of the Conditions of Approval.

If you have any questions regarding this permitting action, please feel free to contact me at (505) 334-4571.

Sincerely,

Blaine Watson

Blaine Watson
District Manager
Water Rights Division – District V Office

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4067 File
WATERS
Steve Varsa, Stantec Environmental Services, via email: steve.varsa@stantec.com
Brandon Powell, NMOCD District 3, via email: brandon.powell@state.nm.us

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

OFFICIAL RECEIPT NUMBER: 5 - 6114 DATE: 12-13-18 FILE NO.: SJ-4203 POD 19-22; SJ-4216 POD 11, and SJ-4067 POD 21-23

TOTAL: 40.00 RECEIVED: forty DOLLARS ☐ CASH: ☒ CHECK NO.: 1313

PAYOR: Stephen Varsa ADDRESS: 63179, 270th St

CITY: Nevada STATE: IA ZIP: 50201 RECEIVED BY: Juett

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office; and **goldenrod** copy to accompany application being filed. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of the daily deposit.

A. Ground Water Filing Fees

___	1. Change of Ownership of Water Right	$ 2.00
___	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Supplemental Non 72-12-1 Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
8	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00

D. Reproduction of Documents

___	@ 25¢/copy	$_____
___	Map(s)	$_____

E. Certification $_____

F. *Credit Card Convenience Fee $_____

G. Other_____ $_____

Comments:

SJ-4067 POD 21-23; Install (2) air sparge test wells & (1) SVE well @ Johnston Federal #4 site

SJ-4203 POD 19-22; Install (1) SVE well & (3) test injection soil borings @ James F. Bell #1E site

SJ-4216 POD 11; Install (1) air sparge test well @ K-27 LD072 site

El Paso CGP, LLC via Stantec

File No. SJ-4067 POD21-POD23

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☒ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: June 18, 2018 Requested End Date: June 30, 2019

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: El Paso CGP Company, L.L.C., Attn: Joseph Wiley	Name:
Contact or Agent: check here if Agent ☐	Contact or Agent: check here if Agent ☐
Mailing Address: 1001 Louisiana Street, Room 956I	Mailing Address:
City: Houston	City:
State: Zip Code: Texas 77002	State: Zip Code:
Phone: (713) 420-3475 (work) ☐ Home ☐ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): joe_wiley@kindermorgan.com	E-mail (optional):

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: SJ-4067 POD21-POD23	Trn. No.:	Receipt No.: 5-6114
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: June 13, 2019	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☒ NM State Plane (NAD83) (Feet)
☒ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☐ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SJ-4067 POD21 (SVE-1)	2740963.711	2133357.984	SW/4, SW/4, Section 27, T31N, R9W
SJ-4067 POD22 (TW-1)	2741011.622	2133370.637	SW/4, SW/4, Section 27, T31N, R9W
SJ-4067 POD23 (TW-2)	2741018.354	2133320.595	SW/4, SW/4, Section 27, T31N, R9W

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ☒ No **If yes, how many**_____

Other description relating well to common landmarks, streets, or other:
Johnston Federal #4 site. SJ-4067 San Juan County.

Well is on land owned by: Dewey and Marcella Sexton

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No
If yes, how many_____

Approximate depth of well (feet): SVE-1=40'; TW-1,2=65'	Outside diameter of well casing (inches): SVE-1=4"; TW-1,2=2"
Driller Name: Cascade Drilling	Driller License Number: WD-1210

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The installation of SVE-1 is to test the feasibility of soil vapor extraction (SVE) methods to address a historical hydrocarbon release at the Site. The testing of SVE-1 will be for pollution control purposes, with the estimated maximum volume of water, as moisture condensate, is 10 gallons. See the attached Work Plan for more information regarding the planned testing activities and water withdrawal. The amount of water being removed will be measured with a totalizer.

Test wells TW-1 and TW-2 will be installed at the site to assess the feasibility of air sparge remedial methods to address a historical hydrocarbon release.

These wells will be plugged and abandoned once it is determined they are no longer needed, or a no further action determination has been granted by the New Mexico Oil Conservation Division for the release.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: SJ-4067 POD21-POD23	Trn No.:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application.

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	☒ Include a plan for pollution control/recovery, that includes the following: ☒ A description of the need for the pollution control or recovery operation. ■ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ■ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ■ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.	■ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Joseph Wiley
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Joseph Wiley
Applicant Signature

Applicant Signature

2018 JUN 13 AM 11:58
AZTEC, NEW MEXICO
OCD ENGINEER OFFICE

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 13th day of June 20 18, for the State Engineer,

Tom Blaine, P.E., State Engineer

By: Blaine Watson
Signature

Blaine Watson
Print

Title: District V Manager
Print

STATE ENGINEER STATE OF NEW MEXICO

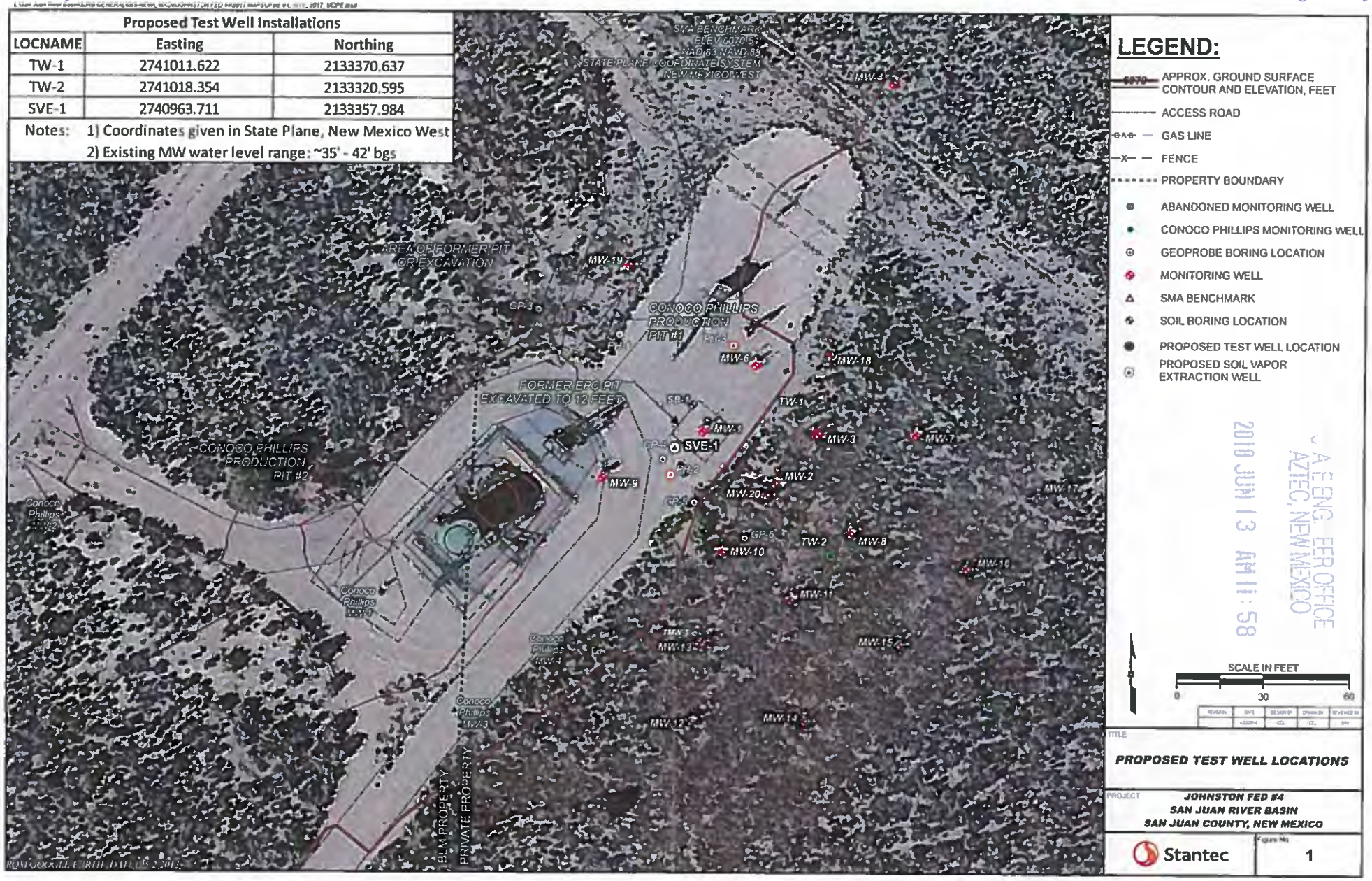
FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: SJ-4067 POD21-POD23	Trn No.:

Proposed Test Well Installations		
LOCNAME	Easting	Northing
TW-1	2741011.622	2133370.637
TW-2	2741018.354	2133320.595
SVE-1	2740963.711	2133357.984

Notes: 1) Coordinates given in State Plane, New Mexico West
2) Existing MW water level range: ~35' - 42' bgs



OSE File: SJ-4067 POD21-POD23

Location Map

NMOSE Permit for Temporary Use of Groundwater for Contaminant Remediation
Conditions of Approval
SJ-4067 POD21-POD23

Upon review of the proposed pollution recovery plan, the New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be permanently impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): El Paso CGP Company, LLC
via Steve Varsa, Stantec Environmental Services as Agent
1001 Louisiana St, Room 1310 B
Houston, TX 77002

Permit Number: SJ-4067

Application File Date: June 13, 2018

Priority: N/A

Source: Groundwater

Point(s) of Diversion: Three new points of diversion (PODs), SJ-4067 POD21-POD23 (Table 1), will be installed. The PODs consist of a proposed soil vapor extraction well and two air sparge testing wells, which are proposed for temporary use for pollution recovery and groundwater monitoring. The wells are located on land owned by Dewey and Marcella Sexton, San Juan County, New Mexico, within the SE/4 SW/4 of Section 27, Township 31 North, Range 9 West, NMPM, associated with the Johnston Fed #4 site investigation, at the following approximate point locations (State Plane NM West, NAD83; feet).

Table 1: Proposed New Monitoring Wells

POD Number and Owner's Well Name	Casing: Inside Diameter (inches) and Depth (feet)		X	Y
SJ-4067 POD21 (SVE-1)	4	40	2,740,963.711	2,133,357.984
SJ-4067 POD22 (TW-1)	2	65	2,741,011.622	2,133,370.637
SJ-4067 POD23 (TW-2)	2	65	2,741,018.354	2,133,320.595

Purpose of Use: Groundwater monitoring and dual phase pollution recovery

Place of Use: N/A

Amount of Water: The permittee my produce up to a total volume of **one acre-foot (325,851 gallons)**, including light non-aqueous phase liquid (LNAPL). This is the total maximum annual volume allowed to be pumped from all water wells at the facility.

2. No extraction of water which is inconsistent with the purpose, date, and volume limitation amounts authorized by this permit shall occur from the wells identified herein.

3. Only *de minimis* amounts of water generated as a result of pollution remediation activities are permitted to be removed from the approved PODs. The application states that contaminants and entrained water will be removed from well SVE-1 (SJ-4067 POD21) during soil vapor extraction testing conducted between June 18, 2018, and June 30, 2019. **Approval under this permit to use well SJ-4067 POD21 for the purpose of pollution extraction/recovery shall expire June 30, 2019, or once the total volume extracted from the POD is equal to one acre-foot, whichever occurs first.**

4. The total volume of water extracted shall be determined quarterly using a totalizing flow meter(s) and submitted to the NMOSE District V office in Aztec based on the following schedule. The quarterly reports shall include the beginning and ending meter readings with units of measurement, meter information, and total volume extracted for the quarterly period. Should no extraction occur during a quarterly measurement period a statement indicating such shall be included in the quarterly report(s). Meter reporting forms are available at: http://www.ose.state.nm.us/Meter/index.php.

   Total volumes extracted shall be determined for the following quarters and submitted as follows:
   - January 1st through March 31st - due by May 1st
   - April 1st through June 30th - due by August 1st
   - July 1st through September 30th - due by November 1st
   - October 1st through December 31st - due by February 1st

5. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring purposes, as required for the current site investigation and any associated remediation, so long as they are required for such activities and remain in good repair. **A new application shall be submitted and a permit obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**

6. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.

7. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a

NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2⅜ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

8. The permittee has not stated whether artesian conditions are likely to be encountered at the proposed well/borehole location(s). However, if artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.

9. A Well Record documenting the as-built well construction and materials used shall be filed for each of the new wells in accordance with Subsection N of 19.27.4.29 NMAC. **Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 30 days after completion of the well(s).** Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit. The required Well Record form is available at http://www.ose.state.nm.us/WR/forms.php.

10. If the required Well Record documentation is not received within one year of the date of permit approval, this permit will automatically expire.

11. When the permittee receives approval or direction to permanently abandon the well(s)/borehole(s) covered by this permit, plugging shall be performed by a New Mexico licensed well driller. The well(s)/borehole(s) shall be plugged pursuant to Subsection C of 19.27.4.30 NMAC using the following method, unless an alternate plugging method has been proposed by or on behalf of the well owner and approved by the NMOSE. If a well/borehole has encountered artesian conditions, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities concerning artesian wells. Additionally, if the following standardized plugging sealant is not appropriate for use due to incompatibility with the water quality or any soil and water contaminates encountered, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities.

    a. Obstructions in a well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

    b. Prior to plugging, calculate the theoretical volume of sealant needed for abandonment of the well/borehole based on the actual measured pluggable depth of the well/borehole and the volume factor for the casing/borehole diameter. Compare the actual volume of sealant placed in the well/borehole with the theoretical volume to verify the actual volume of sealant is equal to or exceeds the theoretical volume.

c. Portland Type I/II cement shall be used for the plugging sealant. The water mixed with the cement to create the plugging sealant shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. Up to a maximum of 6.0 gallons per 94-lb sack is acceptable to allow for greater pumpability.

Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. If a bentonite additive is used, the following rates and mixing guidelines shall be followed. For a rate or a mixing procedure other than that provided below, the NMOSE District V office must be contacted for pre-approval. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of 5.2 gallons water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

d. Placement of the sealant within the well/borehole shall be by pumping through a tremie pipe extended to near the bottom of the well/borehole and kept below the top of the slurry column (i.e., immersed in the slurry) as the well/borehole is plugged from bottom upwards in a manner that displaces the standing water column.

e. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface may be filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

f. **Within 30 days after completion of well/borehole plugging, a complete Plugging Record shall be filed with the State Engineer** in accordance with Paragraph (3) of Subsection C of 19.27.4.30 NMAC for each well/boring plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The required Plugging Record form is available at http://www.ose.state.nm.us/WR/forms.php.

12. In accordance with Subsection C of 19.27.4.30 NMAC, a well/borehole that does not encounter groundwater may be immediately plugged by filling with drill cuttings or clean native fill to within 10 feet of land surface and by plugging the remaining 10 feet to the

land surface with a sealant approved by the Office of the State Engineer. A Plugging Record shall be filed with the State Engineer as described above.

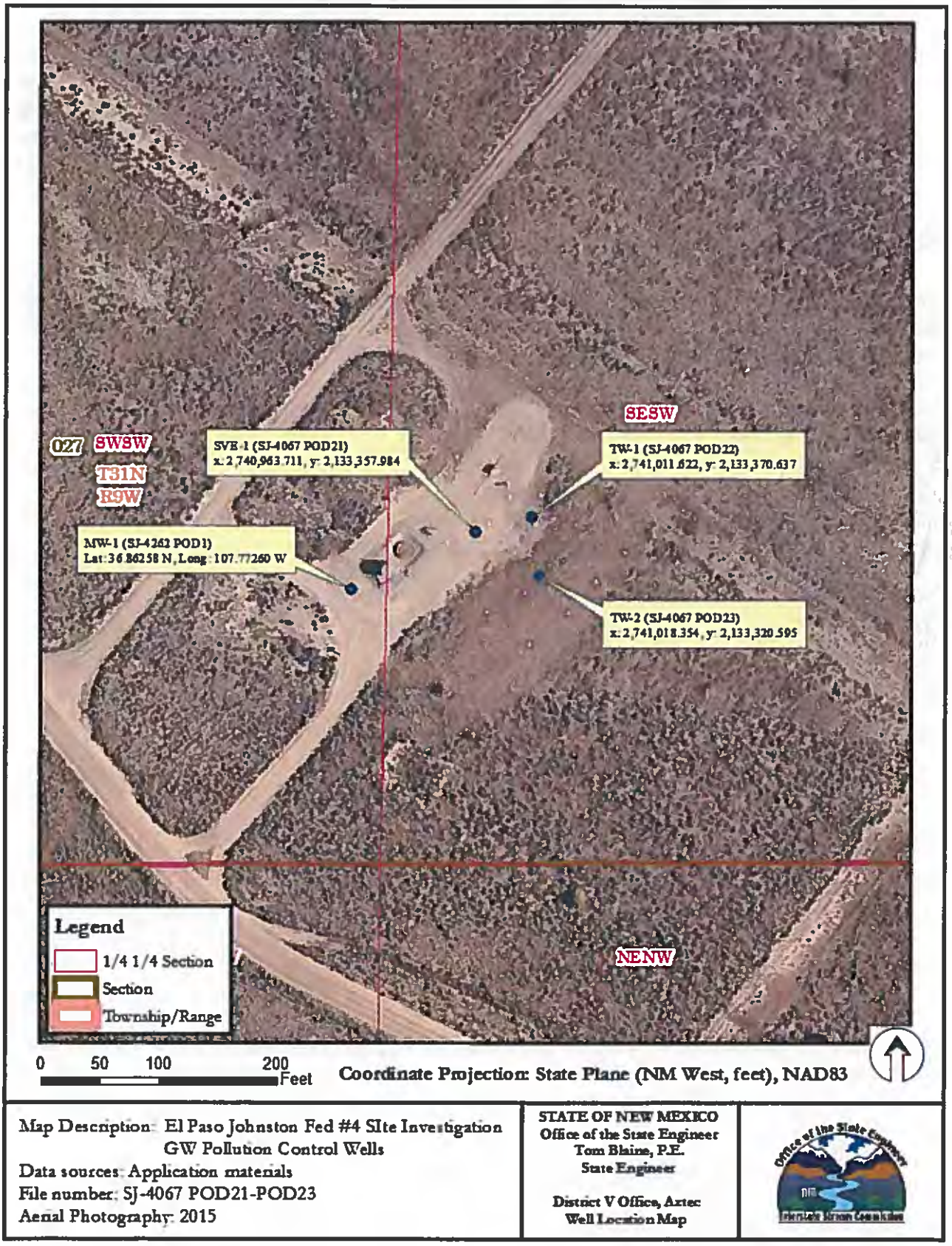
13. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

14. The State Engineer retains jurisdiction of this permit.

The application for temporary use of non-consumptive use well(s) SJ-4067 POD21-POD23 for pollution recovery purposes, submitted on June 13, 2018, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 13th day of June, A.D. 2018.
Tom Blaine, P.E., State Engineer

By: Blaine Watson
Blaine Watson, Manager
District V Office, Water Rights Division



Map Description: El Paso Johnston Fed #4 SIte Investigation
GW Pollution Control Wells
Data sources: Application materials
File number: SJ-4067 POD21-POD23
Aerial Photography: 2015

STATE OF NEW MEXICO
Office of the State Engineer
Tom Blaine, P.E.
State Engineer

District V Office, Aztec
Well Location Map

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

John R. D'Antonio Jr., P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

March 25, 2020

El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 757A
Houston, TX 77002

RE: Permit Approval to Drill Wells with no Water Right, SJ-4067 POD24-POD53, El Paso CGP Company, LLC, Johnston Fed #4 Release Investigation

Dear Mr. Wiley:

On March 23, 2020, the New Mexico Office of the State Engineer received an application for a permit for the drilling and use of thirty new wells for groundwater monitoring purposes at the above referenced location. Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval.

Please be aware that there are deadlines to submit well records for the newly installed monitoring wells. These deadlines can be found in the attached Conditions of Approval. A standardized plugging method has also been included in the Conditions of Approval for the future abandonment of the wells covered by this permit. This eliminates the need to submit a separate Well Plugging Plan of Operations for approval by the NMOSE prior to plugging, unless an alternate plugging method is proposed, required by a separate oversight agency, necessary due to incompatibility with actual conditions, or artesian conditions are encountered. The well and plugging records should be sent to the NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410.

If you have any questions, please feel free to contact me at (505) 383-4571.

Sincerely,

Miles Juett
Assistant Watermaster
Water Rights Division – District V Office

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4067 File
WATERS
Stephen Varsa, Stantec Consulting Services, via email
Cory Smith, NMOCD District 3, via e-mail
Brandon Powell, NMOCD District 3, via email

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

OFFICIAL RECEIPT NUMBER: 5 - 6573 DATE: 3-23-2020 FILE NO.: SJ-4067

TOTAL: 150.00 RECEIVED: one hundred, fifty DOLLARS ☐ CASH: X CHECK NO.: 4478

PAYOR: Stephen Varsa ADDRESS: 63179 270th St.

CITY: Nevada STATE: IA ZIP: 50201-7576 RECEIVED BY: MT

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office; and **goldenrod** copy to accompany application being filed. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of the daily deposit.

A. Ground Water Filing Fees

___	1. Change of Ownership of Water Right	$ 2.00
___	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Supplemental Non 72-12-1 Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
30	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 25¢/copy $_____

___ Map(s) $_____

E. Certification $_____

F. *Credit Card Convenience Fee $_____

G. Other _____ $_____

Comments:

- App to install 30 new MWs @ El Paso Natural Gas Co.'s Johnston Fed #4 site

File No. SJ-4067 POD24-53

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: April 13, 2020 Requested End Date: December 31, 2021

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: El Paso CGP Company, LLC, Attn: Joseph Wiley	Name:
Contact or Agent: check here if Agent ☐	Contact or Agent: check here if Agent ☐
Mailing Address: 1001 Louisiana Street, Room 757A	Mailing Address:
City: Houston	City:
State: Texas Zip Code: 77002	State: Zip Code:
Phone: (713) 420-3475 (work) ☐ Home ☐ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): joe_wiley@kindermorgan.com	E-mail (optional):

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2020 MAR 23 AM 7:34

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: SJ-4067 POD24-53	Trn. No.:	Receipt No.: 5-6573
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: 3-25-2021	

2. **WELL(S)** Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☒ NM State Plane (NAD83) (Feet)
☒ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☐ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
MW-21 (SJ-4067 POD24)	2741084.616	2133267.734	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
MW-22 (POD25)	2741117.146	2133311.745	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
MW-23 (POD26)	2741106.090	2133428.258	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
AS-3 (POD27)	2740956.793	2133398.987	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
AS-4 (POD28)	2740970.941	2133419.005	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☒ Yes ☐ No **If yes, how many** 25

Other description relating well to common landmarks, streets, or other:
Johnston Fed #4 (Permit SJ-4067)

Well is on land owned by: Dewey and Marcella Sexton

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☒ Yes ☐ No
If yes, how many 25

Approximate depth of well (feet): MW's=60', AS's=65', SVE's=45'	Outside diameter of well casing (inches): MW's/AS's=2", SVE's=4"
Driller Name: Matt Cain (Cascade Drilling)	Driller License Number: WD-1210

3. **ADDITIONAL STATEMENTS OR EXPLANATIONS**

Groundwater monitoring wells are being installed at the site to provide further delineation of groundwater impacts to move the site toward closure. The air sparge and soil vapor extraction wells are being installed for potential connection to a remediation system in the future. A request for a Pollution Control and Recovery permit for the SVE wells will be submitted separately. Groundwater will be sampled from the monitoring wells twice each year until site closure. Sampling and remediation will be performed with minimal removal of water. The wells will be abandoned according to State of New Mexico regulations once a no further action determination has been granted by the New Mexico Oil Conservation Division.

2020 MAR 23 AM 7:34

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: SJ-4067 POD24-53	Trn No.:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	Pollution Control and/or Recovery:	Construction De-Watering:	Mine De-Watering:
☐ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☒ Include the reason for the monitoring well, and, ☐ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Joseph Wiley
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Joseph Wiley
Applicant Signature

Applicant Signature

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2020 MAR 23 AM 7:4

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 25 day of March 20 20, for the State Engineer,

John R. D'Antonio Jr., P.E., State Engineer

By: Miles Juett
Signature

Miles Juett
Print

Title: Assistant Watermaster
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: SJ-4067 POD24-53	Trn No.:

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☒ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 30 Total number of pages attached to the application: 3

☐ Surface Point of Diversion OR	☒ Well
Name of ditch, acequia, or spring:	N/A
Stream or water course:	N/A
Tributary of:	N/A

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☒ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☐ Lat/Long– (WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: AS-5 (POD29)	X or Longitude: 2740942.200	Y or Latitude: 2133346.733	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-6 (POD30)	X or Longitude: 2740968.408	Y or Latitude: 2133364.893	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-7 (POD31)	X or Longitude: 2740987.154	Y or Latitude: 2133381.958	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-8 (POD32)	X or Longitude: 2740971.445	Y or Latitude: 2133334.587	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-9 (POD33)	X or Longitude: 2740992.956	Y or Latitude: 2133353.237	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-10 (POD34)	X or Longitude: 2740969.608	Y or Latitude: 2133302.746	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-11 (POD35)	X or Longitude: 2740992.858	Y or Latitude: 2133322.431	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-12 (POD36)	X or Longitude: 2741011.488	Y or Latitude: 2133342.165	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-13 (POD37)	X or Longitude: 2741031.572	Y or Latitude: 2133361.499	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: SJ-4067 POD24-53	Trn Number:
Trans Description (optional):	

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☒ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 30 Total number of pages attached to the application: 3

☐ Surface Point of Diversion OR ☒ Well

Name of ditch, acequia, or spring:	N/A
Stream or water course:	N/A
Tributary of:	N/A

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☒ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☐ Lat/Long-(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: AS-14 (POD38)	X or Longitude: 2740985.576	Y or Latitude: 2133281.306	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-15 (POD39)	X or Longitude: 2741003.402	Y or Latitude: 2133299.935	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-16 (POD40)	X or Longitude: 2741038.698	Y or Latitude: 2133333.975	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-17 (POD41)	X or Longitude: 2741057.733	Y or Latitude: 2133353.915	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-18 (POD42)	X or Longitude: 2741012.463	Y or Latitude: 2133273.598	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-19 (POD43)	X or Longitude: 2741029.915	Y or Latitude: 2133292.340	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-20 (POD44)	X or Longitude: 2741049.084	Y or Latitude: 2133310.414	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-21 (POD45)	X or Longitude: 2741065.572	Y or Latitude: 2133329.040	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: AS-22 (POD46)	X or Longitude: 2741081.306	Y or Latitude: 2133345.045	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: SJ- 4067 POD24- 53	Trn Number.
Trans Description (optional):	

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☒ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 30 Total number of pages attached to the application: 3

☐ Surface Point of Diversion OR ☒ Well

Name of ditch, acequia, or spring:	N/A
Stream or water course:	N/A
Tributary of:	N/A

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☒ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☐ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☒ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: SVE-2 (POD47)	X or Longitude: 2740984.821	Y or Latitude: 2133373.571	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: SVE-3 (POD48)	X or Longitude: 2740996.177	Y or Latitude: 2133350.980	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: SVE-4 (POD49)	X or Longitude: 2741008.619	Y or Latitude: 2133366.238	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: SVE-5 (POD50)	X or Longitude: 2740996.774	Y or Latitude: 2133308.049	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: SVE-6 (POD51)	X or Longitude: 2741013.151	Y or Latitude: 2133326.965	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: SVE-7 (POD52)	X or Longitude: 2741026.698	Y or Latitude: 2133344.947	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number: SVE-8 (POD53)	X or Longitude: 2741040.042	Y or Latitude: 2133362.499	Other Location Description: SE 1/4 of the SW 1/4 of Section 27, T. 31N, R. 9W
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:
POD Number:	X or Longitude:	Y or Latitude:	Other Location Description:

2020 MAR 23 AM 7:34

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: SJ-4067 POD24-53	Trn Number:
Trans Description (optional):	

NMOSE Permit to Drill a Well(s) With No Water Right
Conditions of Approval
SJ-4067 POD24-POD53

The New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application approval (i.e., permit) is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 757A
Houston, TX 77002

Permit Number: SJ-4067

Application File Date: March 23, 2020

Priority: N/A

Source: Groundwater

Point(s) of Diversion: Thirty new points of diversion (PODs), SJ-4067 POD24-POD53 (Table 1), will be installed. The PODs consist of thirty monitoring wells, 20 of which will potentially be used in the future as air sparge testing wells, and seven of which will potentially be used in the future as soil vapor extraction wells. The wells are located on land owned by Dewey and Marcella Sexton, San Juan County, New Mexico, within the SW/4 SE/4 SW/4 of Section 27, Township 31 North, Range 9 West, NMPM, associated with the Johnston Fed #4 site investigation, at the following approximate point locations (State Plane NM West, NAD83; feet).

Table 1: Proposed New Monitoring Wells

POD Number and Owner's Well Name	Casing: Inside Diameter (inches),	Depth (feet)	X or Easting (feet)	Y or Northing (feet)
SJ-4067 POD24 (MW-21)	2	60	2,741,084.616	2,133,267.734
SJ-4067 POD25 (MW-22)	2	60	2,741,117.146	2,133,311.745
SJ-4067 POD26 (MW-23)	2	60	2,741,106.090	2,133,428.258
SJ-4067 POD27 (AS-3)	2	65	2,740,956.793	2,133,398.987
SJ-4067 POD28 (AS-4)	2	65	2,740,970.941	2,133,419.005
SJ-4067 POD29 (AS-5)	2	65	2,740,942.200	2,133,346.733
SJ-4067 POD30 (AS-6)	2	65	2,740,968.408	2,133,364.893

POD Number and Owner's Well Name	Casing: Inside Diameter (inches),	Depth (feet)	X or Easting (feet)	Y or Northing (feet)
SJ-4067 POD31 (AS-7)	2	45	2,740,987.154	2,133,381.958
SJ-4067 POD32 (AS-8)	2	45	2,740,971.445	2,133,334.587
SJ-4067 POD33 (AS-9)	2	45	2,740,992.956	2,133,353.237
SJ-4067 POD34 (AS-10)	2	45	2,740,969.608	2,133,302.746
SJ-4067 POD35 (AS-11)	2	45	2,740,992.858	2,133,322.431
SJ-4067 POD36 (AS-12)	2	45	2,741,011.488	2,133,342.165
SJ-4067 POD37 (AS-13)	2	45	2,741,031.572	2,133,361.499
SJ-4067 POD38 (AS-14)	2	45	2,740,985.576	2,133,281.306
SJ-4067 POD39 (AS-15)	2	45	2,741,003.402	2,133,299.935
SJ-4067 POD40 (AS-16)	2	45	2,741,038.698	2,133,333.975
SJ-4067 POD41 (AS-17)	2	45	2,741,057.733	2,133,353.915
SJ-4067 POD42 (AS-18)	2	45	2,741,012.463	2,133,273.598
SJ-4067 POD43 (AS-19)	2	45	2,741,029.915	2,133,292.340
SJ-4067 POD44 (AS-20)	2	45	2,741,049.084	2,133,310.414
SJ-4067 POD45 (AS-21)	2	45	2,741,065.572	2,133,329.040
SJ-4067 POD46 (AS-22)	2	45	2,741,081.306	2,133,345.045
SJ-4067 POD47 (SVE-2)	4	45	2,740,984.821	2,133,373.571
SJ-4067 POD48 (SVE-3)	4	45	2,740,996.177	2,133,350.980
SJ-4067 POD49 (SVE-4)	4	45	2,741,008.619	2,133,366.238
SJ-4067 POD50 (SVE-5)	4	45	2,740,996.774	2,133,308.049
SJ-4067 POD51 (SVE-6)	4	45	2,741,013.151	2,133,326.965
SJ-4067 POD52 (SVE-7)	4	45	2,741,026.698	2,133,344.947
SJ-4067 POD53 (SVE-8)	4	45	2,741,040.042	2,133,362.499

Purpose of Use: Groundwater monitoring

Place of Use: N/A

Amount of Water: N/A

2. No water shall be appropriated and beneficially used from any wells or borings approved under this permit.

3. No water shall be diverted from the well(s) except for initial well development and periodic sampling purposes. Upon completion of monitoring activities the well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC, unless a permit to use water is acquired from the NMOSE.

4. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring required for the current site investigation and any associated remediation, so long as they remain in good repair. **A new permit shall be obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**

5. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.

6. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2⅜ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

7. The permittee has not stated whether artesian conditions are likely to be encountered at the proposed well/borehole location(s). However, if artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.

8. A Well Record documenting the as-built well construction and materials used shall be filed for each of the wells in accordance with Subsection N of 19.27.4.29 NMAC. **Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 30 days after completion of the well(s).** Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit. The required Well Record form is available at http://www.ose.state.nm.us/WR/forms.php.

9. If the required Well Record documentation is not received within one year of the date of permit approval, this permit will automatically expire.

10. When the permittee receives approval or direction to permanently abandon the well(s)/borehole(s) covered by this permit, plugging shall be performed by a New Mexico licensed well driller. The well(s)/borehole(s) shall be plugged pursuant to Subsection C of 19.27.4.30 NMAC using the following method, unless an alternate plugging method has been proposed by or on behalf of the well owner and approved by the NMOSE. If a well/borehole has encountered artesian conditions, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities concerning artesian wells. Additionally, if the following standardized plugging sealant is not appropriate for use due to incompatibility with the water quality or any soil and water contaminates encountered, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities.

    a. Obstructions in a well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

    b. Prior to plugging, calculate the theoretical volume of sealant needed for abandonment of the well/borehole based on the actual measured pluggable depth of the well/borehole and the

volume factor for the casing/borehole diameter. Compare the actual volume of sealant placed in the well/borehole with the theoretical volume to verify the actual volume of sealant is equal to or exceeds the theoretical volume.

c. Portland Type I/II cement shall be used for the plugging sealant. The water mixed with the cement to create the plugging sealant shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. Up to a maximum of 6.0 gallons per 94-lb sack is acceptable to allow for greater pumpability.

Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. If a bentonite additive is used, the following rates and mixing guidelines shall be followed. For a rate or a mixing procedure other than that provided below, the NMOSE District V office must be contacted for pre-approval. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of 5.2 gallons water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

d. Placement of the sealant within the well/borehole shall be by pumping through a tremie pipe extended to near the bottom of the well/borehole and kept below the top of the slurry column (i.e., immersed in the slurry) as the well/borehole is plugged from bottom upwards in a manner that displaces the standing water column.

e. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface may be filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

f. **Within 30 days after completion of well/borehole plugging, a complete Plugging Record shall be filed with the State Engineer** in accordance with Paragraph (3) of Subsection C of 19.27.4.30 NMAC for each well/boring plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The required Plugging Record form is available at http://www.ose.state.nm.us/WR/forms.php.

11. In accordance with Subsection C of 19.27.4.30 NMAC, a well/borehole that does not encounter groundwater may be immediately plugged by filling with drill cuttings or clean native fill to within 10 feet of land surface and by plugging the remaining 10 feet to the land surface with a sealant approved by the Office of the State Engineer. A Plugging Record shall be filed with the State Engineer as described above.

12. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods

and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

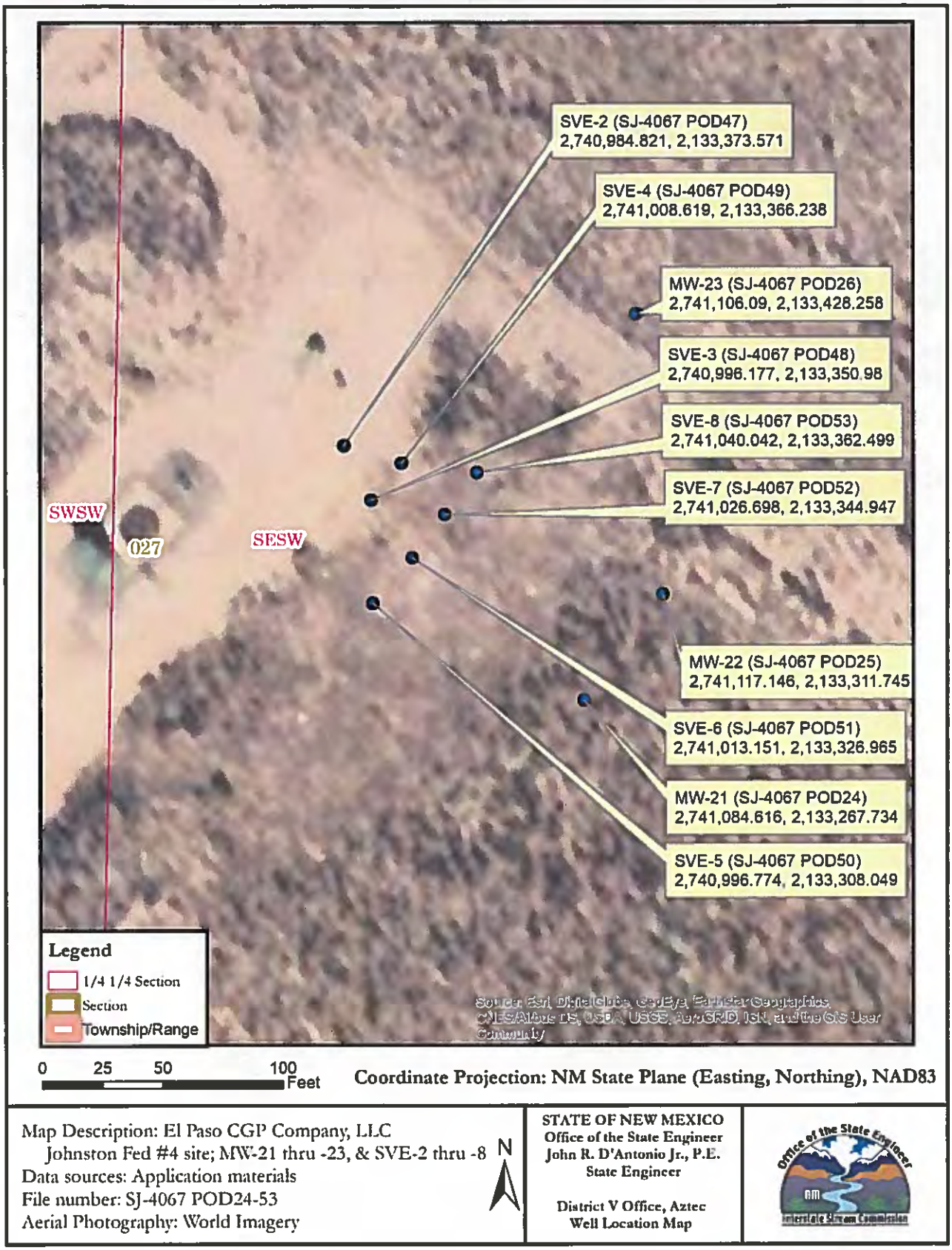
13. Pursuant to 72-12-3 NMSA 1978, the applicant has provided written documentation with the application, which the applicant claims as confirmation that access has been or will be granted for the aforementioned well(s) to be located on property owned by someone other than the well owner/applicant. NMOSE approval of this permit in no way infers the right of access to land not owned by the well owner/applicant.

14. The State Engineer retains jurisdiction of this permit.

The application for drilling thirty new well(s) SJ-4067 POD24-POD53 without a water right, submitted on March 23, 2020 , is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 25th day of March, A.D. 2020.
John R. D'Antonio, Jr., P.E., State Engineer

By: _____
Miles Juett, Assistant Watermaster
District V Office, Water Rights Division



Map Description: El Paso CGP Company, LLC
Johnston Fed #4 site; MW-21 thru -23, & SVE-2 thru -8
Data sources: Application materials
File number: SJ-4067 POD24-53
Aerial Photography: World Imagery

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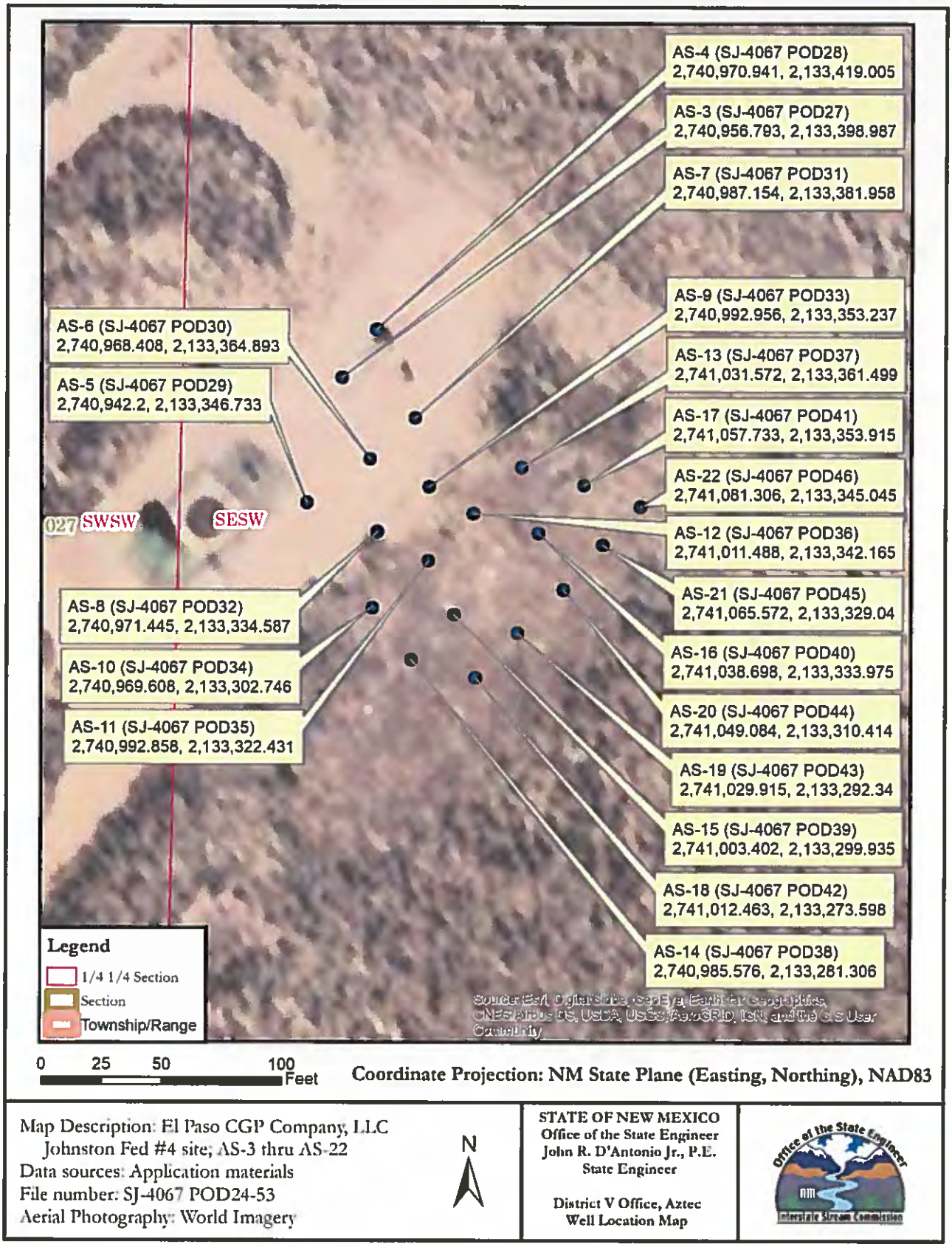
STATE OF NEW MEXICO
Office of the State Engineer
John R. D'Antonio Jr., P.E.
State Engineer

District V Office, Aztec
Well Location Map



Map Description: El Paso CGP Company, LLC
Johnston Fed #4 site; AS-3 thru AS-22
Data sources: Application materials
File number: SJ-4067 POD24-53
Aerial Photography: World Imagery

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STATE OF NEW MEXICO
Office of the State Engineer
John R. D'Antonio Jr., P.E.
State Engineer

District V Office, Aztec
Well Location Map

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Mike A. Hamman, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

September 20, 2022

El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 1445B
Houston, TX 77002

RE: Permit Approval to Drill Wells with no Water Right, SJ-4067 POD54-POD59, El Paso CGP Company, LLC, Johnston Fed #4 Release Investigation

Dear Mr. Wiley:

On August 31, 2022, the New Mexico Office of the State Engineer received an application for a permit for the drilling and use of six new wells for groundwater monitoring purposes at the above referenced location. Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval.

Please be aware that there are deadlines to submit well records for the newly installed monitoring wells. These deadlines can be found in the attached Conditions of Approval. A standardized plugging method has also been included in the Conditions of Approval for the future abandonment of the wells covered by this permit. This eliminates the need to submit a separate Well Plugging Plan of Operations for approval by the NMOSE prior to plugging, unless an alternate plugging method is proposed, required by a separate oversight agency, necessary due to incompatibility with actual conditions, or artesian conditions are encountered. The well and plugging records should be sent to the NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410.

If you have any questions, please feel free to contact me at (505) 383-4571.

Sincerely,

Miles Juett
Watermaster
Water Rights Division – District V Office

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4067 File
WATERS
Stephen Varsa, Stantec Consulting Services, via email

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

OFFICIAL RECEIPT NUMBER: 5 - 7137 DATE: 8-31-2022 FILE NO.: SJ-4237 ; SJ-4216; SJ-4067

TOTAL: 60.00 RECEIVED: ~~60.00~~ (sixty) DOLLARS ☐ CASH: ☒ CHECK NO.: 5241

PAYOR: _____ ADDRESS: 63179 ~~000~~ 270th St.

CITY: Nevada STATE: IA ZIP: 50201 RECEIVED BY: MJ

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office; and **goldenrod** copy to accompany application being filed. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of the daily deposit.

A. Ground Water Filing Fees

___	1. Change of Ownership of Water Right	$ 2.00
___	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Supplemental Non 72-12-1 Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
12	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 25¢/copy $_____

___ Map(s) $_____

E. Certification $_____

F. *Credit Card Convenience Fee $_____

G. Other_____ $_____

Comments:

El Paso CGP Co. LLC via Stanley

Fogelson #4-1

K-27

Johnston Federal #4

File No. SJ-4067 POD54-59

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: October 8, 2022 Requested End Date: Unknown

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: El Paso CGP Company, LLC, Attn: Joseph Wiley	Name:
Contact or Agent: check here if Agent ☐	Contact or Agent: check here if Agent ☐
Mailing Address: 1001 Louisiana Street, Room 1445B	Mailing Address:
City: Houston	City:
State: Zip Code: Texas 77002	State: Zip Code:
Phone: (713) 420-3475 (work) ☐ Home ☐ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): joe_wiley@kindermorgan.com	E-mail (optional):

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: SJ-4067 POD54-59	Trn. No.:	Receipt No.: 5-7137
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: Sept. 20, 2023	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
(SJ-4067 POD54) MW-24	-107.77169	36.86243	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
(POD55) MW-25	-107.77163	36.86256	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
(POD56) SVE-9	-107.77187	36.86245	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
(POD57) SVE-10	-107.77179	36.86251	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
(POD58) SVE-11	-107.77175	36.86256	SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ■ **Yes** ☐ **No** **If yes, how many** 1

Other description relating well to common landmarks, streets, or other:
Johnston Fed #4 (Permit SJ-4067)

Well is on land owned by: Dewey and Marcella Sexton

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ■ **Yes** ☐ **No**
If yes, how many 1

Approximate depth of well (feet): MW's=62', SVE's=50'	Outside diameter of well casing (inches): MW's=2", SVE's=4"
Driller Name: Cascade Drilling	Driller License Number: WD-1440

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Groundwater monitoring wells are being installed at the site to provide further delineation of groundwater impacts to move the site toward closure. The soil vapor extraction (SVE) wells are being installed for potential connection to a remediation system in the future. A request for a Pollution Control and Recovery permit for the SVE wells will be submitted separately. Groundwater will be sampled from the monitoring wells twice each year until site closure. Sampling and remediation will be performed with minimal removal of water. The wells will be abandoned according to State of New Mexico regulations once a no further action determination has been granted by the New Mexico Oil Conservation Division.

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	**Pollution Control and/or Recovery:** ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	**Construction De-Watering:** ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	**Mine De-Watering:** ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ■ Include the reason for the monitoring well, and, ☐ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Joseph Wiley
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Joseph Wiley
Applicant Signature

Applicant Signature

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2022 AUG 31 AM 9:59

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 20 day of September 20 22, for the State Engineer,

Mike A. Hamman, P.E., State Engineer

By: Miles Juett
Signature Print

Title: Watermaster
Print

FOR OSE INTERNAL USE Application for Permit, Form WR-07

File No.: SJ-4067 POD54-59	Trn No.:

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT 1
POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:	b. Information on Attachment(s):
☐ Move-From Point of Diversion(s) ☐ Move-To Point of Diversion(s)	Number of points of diversion involved in the application: 1 Total number of pages attached to the application: 1

☐ Surface Point of Diversion OR	☒ Well
Name of ditch, acequia, or spring:	NA
Stream or water course:	NA
Tributary of:	NA

c. Location (Required):
Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)

NM State Plane (NAD83) (feet) NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	UTM (NAD83) (meters) Zone 13N ☐ Zone 12N ☐	☒ Lat/Long–(WGS84) 1/10th of second	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant
POD Number: (POD59) SVE-12	X or Longitude: -107.77170	Y or Latitude: 36.86262	Other Location Description: SE ¼ of the SW ¼ of Section 27, T. 31N, R. 9W
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2025 AUG 31 AM 9:59

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number: SJ-4067 POD54-59	Trn Number:
Trans Description (optional):	

NMOSE Permit to Drill a Well(s) With No Water Right
Conditions of Approval
SJ-4067 POD54-POD59

The New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application approval (i.e., permit) is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 1445B
Houston, TX 77002

Permit Number: SJ-4067

Application File Date: March 23, 2020

Priority: N/A

Source: Groundwater

Point(s) of Diversion: Six new points of diversion (PODs), SJ-4067 POD54-POD59 (Table 1), will be installed. The PODs consist of six monitoring wells, four of which will potentially be used in the future as soil vapor extraction wells. The wells are located on land owned by Dewey and Marcella Sexton, San Juan County, New Mexico, within the SW/4 SE/4 SW/4 of Section 27, Township 31 North, Range 9 West, NMPM, associated with the Johnston Fed #4 site investigation, at the following approximate point locations (State Plane NM West, NAD83; feet).

Table 1: Proposed New Monitoring Wells

POD Number and Owner's Well Name	Casing: Inside Diameter (inches),	Depth (feet)	X or Easting (feet)	Y or Northing (feet)
SJ-4067 POD54 (MW-24)	2	62	2,741,084.616	2,133,267.734
SJ-4067 POD55 (MW-25)	2	62	2,741,117.146	2,133,311.745
SJ-4067 POD56 (SVE-9)	4	50	2,740,996.774	2,133,308.049
SJ-4067 POD57 (SVE-10)	4	50	2,741,013.151	2,133,326.965
SJ-4067 POD58 (SVE-11)	4	50	2,741,026.698	2,133,344.947
SJ-4067 POD59 (SVE-12)	4	50	2,741,040.042	2,133,362.499

Purpose of Use: Groundwater monitoring

Place of Use: N/A

Amount of Water: N/A

2. No water shall be appropriated and beneficially used from any wells or borings approved under this permit.

3. No water shall be diverted from the well(s) except for initial well development and periodic sampling purposes. Upon completion of monitoring activities the well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC, unless a permit to use water is acquired from the NMOSE.

4. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring required for the current site investigation and any associated remediation, so long as they remain in good repair. **A new permit shall be obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**

5. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.

6. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2⅜ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

7. The permittee has not stated whether artesian conditions are likely to be encountered at the proposed well/borehole location(s). However, if artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.

8. A Well Record documenting the as-built well construction and materials used shall be filed for each of the wells in accordance with Subsection N of 19.27.4.29 NMAC. **Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 30 days after completion of the well(s)**. Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit. The required Well Record form is available at http://www.ose.state.nm.us/WR/forms.php.

9. If the required Well Record documentation is not received within one year of the date of permit approval, this permit will automatically expire.

10. When the permittee receives approval or direction to permanently abandon the well(s)/borehole(s) covered by this permit, plugging shall be performed by a New Mexico licensed well driller. The well(s)/borehole(s) shall be plugged pursuant to Subsection C of 19.27.4.30 NMAC using the following method, unless an alternate plugging method has been proposed by or on behalf of the well owner and approved by the NMOSE. If a well/borehole has encountered artesian conditions, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well

plugging activities concerning artesian wells. Additionally, if the following standardized plugging sealant is not appropriate for use due to incompatibility with the water quality or any soil and water contaminates encountered, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities.

a. Obstructions in a well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

b. Prior to plugging, calculate the theoretical volume of sealant needed for abandonment of the well/borehole based on the actual measured pluggable depth of the well/borehole and the volume factor for the casing/borehole diameter. Compare the actual volume of sealant placed in the well/borehole with the theoretical volume to verify the actual volume of sealant is equal to or exceeds the theoretical volume.

c. Portland Type I/II cement shall be used for the plugging sealant. The water mixed with the cement to create the plugging sealant shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. Up to a maximum of 6.0 gallons per 94-lb sack is acceptable to allow for greater pumpability.

   Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. If a bentonite additive is used, the following rates and mixing guidelines shall be followed. For a rate or a mixing procedure other than that provided below, the NMOSE District V office must be contacted for pre-approval. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of 5.2 gallons water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

d. Placement of the sealant within the well/borehole shall be by pumping through a tremie pipe extended to near the bottom of the well/borehole and kept below the top of the slurry column (i.e., immersed in the slurry) as the well/borehole is plugged from bottom upwards in a manner that displaces the standing water column.

e. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface may be filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

f. **Within 30 days after completion of well/borehole plugging, a complete Plugging Record shall be filed with the State Engineer** in accordance with Paragraph (3) of Subsection C of 19.27.4.30 NMAC for each well/boring plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The required Plugging Record form is available at http://www.ose.state.nm.us/WR/forms.php.

11. In accordance with Subsection C of 19.27.4.30 NMAC, a well/borehole that does not encounter groundwater may be immediately plugged by filling with drill cuttings or clean native fill to within 10 feet of land surface and by plugging the remaining 10 feet to the land surface with a sealant approved by the Office of the State Engineer. A Plugging Record shall be filed with the State Engineer as described above.

12. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

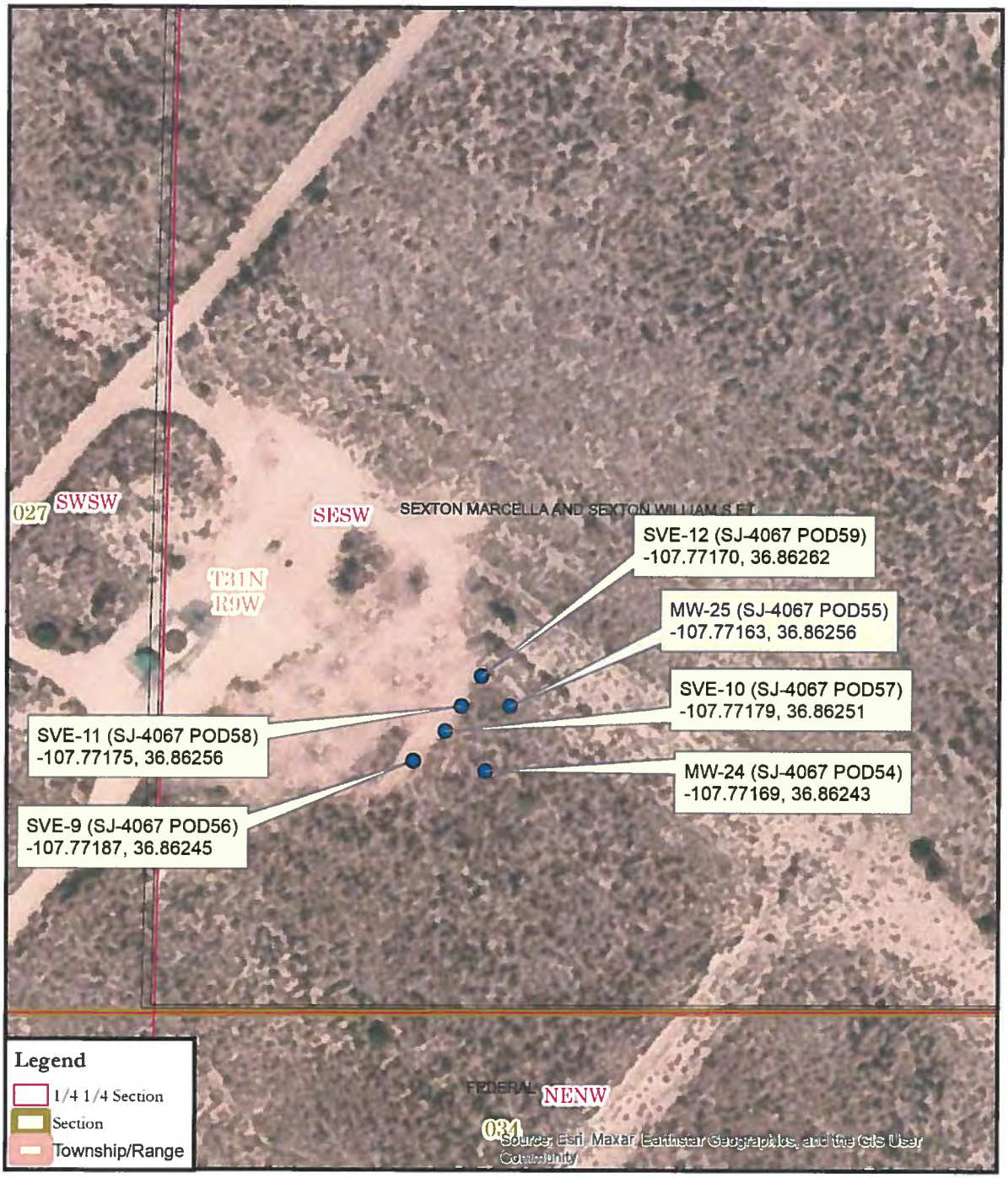
13. Pursuant to 72-12-3 NMSA 1978, the applicant has provided written documentation with the application, which the applicant claims as confirmation that access has been or will be granted for the aforementioned well(s) to be located on property owned by someone other than the well owner/applicant. NMOSE approval of this permit in no way infers the right of access to land not owned by the well owner/applicant.

14. The State Engineer retains jurisdiction of this permit.

The application for drilling six new well(s) SJ-4067 POD54-POD59 without a water right, submitted on August 31, 2022 , is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 20th day of September, A.D. 2022.
Mike A. Hamman, P.E., State Engineer

By: _____
Miles Juett, Watermaster
District V Office, Water Rights Division



Map Description: El Paso CGP Co. LLC Johnston Fed #4 Site Investigation,San Juan County, New Mexico
Data sources: Application materials
File number: SJ-4067 POD54-59
Aerial Photography: World Imagery

N

STATE OF NEW MEXICO
Office of the State Engineer
Mike A. Hamman, P.E.
State Engineer

District V Office, Aztec
Well Location Map

Office of the State Engineer
nm
Interstate Stream Commission

APPENDIX H

NMOSE Pollution Recovery Permit

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Mike A. Hamman, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

December 12, 2023

El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 1445B
Houston, TX 77002

RE: Permit Approval to account and report SVE water for release site under SJ-4067 POD21, El Paso CGP Company, LLC, Johnston Fed #4 Release Investigation

Dear Mr. Wiley:

On December 12, 2023, the New Mexico Office of the State Engineer received an application for a permit for modification of current site permits to allow for accounting and reporting of SVE water removed from valid, permitted SVE wells under SJ-4067 to be reported under SJ-4067 POD21 (SVE-1) at the above referenced location. Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval.

Deadlines for reporting can be found in the attached Conditions of Approval.

If you have any questions, please feel free to contact me at (505) 383-4571.

Sincerely,

Miles Juett
Watermaster
Water Rights Division – District V Office

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4067 File
WATERS
Stephen Varsa, Stantec Consulting Services, via email

File No. SJ-4067 POD21

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☒ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well*(Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☐ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

☒ Temporary Request - Requested Start Date: January 1, 2024	Requested End Date: December 31, 2028
Plugging Plan of Operations Submitted? ☒ Yes ☐ No	

1. APPLICANT(S)

Name: El Paso CGP Company, LLC	Name:
Contact or Agent: check here if Agent ☐ Joseph Wiley	Contact or Agent: check here if Agent ☐
Mailing Address: 1001 Louisiana Street, Room 1445B	Mailing Address:
City: Houston	City:
State: Texas Zip Code: 77002	State: Zip Code:
Phone: ☐ Home ☐ Cell Phone (Work): (713) 420-3475	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): joe_wiley@kindermorgan.com	E-mail (optional):

FOR OSE INTERNAL USE — Application for Permit, Form WR-07, Rev 07/12/22

File No.: SJ-4067 POD21	Trn. No.:	Receipt No.: 5-7368
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: n/a	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☒ NM State Plane (NAD83) (Feet)
☒ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☐ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SJ-4067 POD 21 (SVE-1)	2740963.711	2133357.984	SW/4, SW/4, Section 27, T31N, R9W

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ☒ No **If yes, how many**_____

Other description relating well to common landmarks, streets, or other:

SJ-4067. Johnson Federal #4 site.

Well is on land owned by: Dewey and Marcella Sexton

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ☐ Yes ☒ No
If yes, how many_____

Approximate depth of well (feet): 40' (SVE-1)	Outside diameter of well casing (inches): 4"
Driller Name: Cascade Drilling	Driller License Number: WD-1210

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The purpose of this application is to modify the existing permit for POD 21 (SVE-1) to account for any water, as condensation, removed from all SVE wells at the site. Twelve SVE wells are piped to an SVE system with a common header that goes through a moisture knock-out tank, at which point the removal of condensate by the system will be metered via a totalizer.

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File No.: SJ-4067 POD21	Trn No.:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
Is proposed well a future public water supply well? ☐ Yes ☐ NO If Yes, an application must be filed with NMED-DWB, concurrently. ☐ Include a description of the requested pump test if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ■ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring ☐ The reason and duration of the monitoring is required.		**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Joseph Wiley
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Joseph Wiley
Applicant Signature

Applicant Signature

2023 DEC -1 AM 8:26

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 12 day of December 20 23, for the State Engineer,

Mike A. Hamman, P.E., State Engineer

By: Miles Juett
Signature Print

Title: Watermaster
Print

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 07/12/22

File No.: SJ-4067 POD21	Trn No.:

NMOSE Permit to Drill a Well(s) With No Water Right
Conditions of Approval
SJ-4067 POD21

The New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application approval (i.e., permit) is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): El Paso CGP Company, LLC
Attn: Joseph Wiley
1001 Louisiana Street, Room 1445B
Houston, TX 77002

Permit Number: SJ-4067

Application File Date: December 1, 2023

Priority: N/A

Source: Groundwater

Point(s) of Diversion: SJ-4067 POD21 (Table 1), existing and permitted monitoring well is proposed to be modified administratively as the POD under which any water, as condensation, removed from valid permitted SVE wells at this site to be collectively reported under. The wells are located on land owned by Dewey and Marcella Sexton, San Juan County, New Mexico, within the SW/4 SW/4 of Section 27, Township 31 North, Range 9 West, NMPM, associated with the Johnston Fed #4 site investigation, at the following approximate point locations (State Plane NM West, NAD83; feet).

Table 1: Proposed New Monitoring Wells

POD Number and Owner's Well Name	Casing: Inside Diameter (inches), Depth (feet)		X or Easting (feet)	Y or Northing (feet)
SJ-4067 POD21 (SVE-1)	2	40	2,740,963.711	2,133,357.984

Purpose of Use: Groundwater monitoring and dual phase pollution recovery

Place of Use: N/A

Amount of Water: The permittee my produce up to a total volume of **one acre-foot (325,851 gallons)**, including light non-aqueous phase liquid (LNAPL). This is the total maximum annual volume allowed to be pumped from all water wells at the facility.

2. No extraction of water shall occur beyond the use, date and limited amounts authorized by this permit from the wells identified.

3. Only *de minimis* amounts of water generated as a result of pollution remediation activities are permitted to be removed from the approved PODs. The application states that contaminants will be removed from the wells using a dual-phase extraction system operated in successive extraction events between January 1, 2024 and December 31, 2028.

   Approval under this permit to use approved SVE wells at this site for the purpose of pollution extraction/recovery shall expire December 31, 2028, or once the total volume extracted is equal to one acre-foot, whichever occurs first.

4. The total volume of water extracted shall be determined quarterly using a totalizing flow meter(s) and submitted to the NMOSE District V office in Aztec based on the following schedule. The quarterly reports shall include the beginning and ending meter readings with units of measurement, meter information, and total volume extracted for the quarterly period. Should no extraction occur during a quarterly measurement period a statement indicating such shall be included in the quarterly report(s). Meter reporting forms are available at: http://www.ose.state.nm.us/Meter/index.php.

   Total volumes extracted shall be determined for the following quarters and submitted as follows:
   - January 1st through March 31st - due by May 1st
   - April 1st through June 30th - due by August 1st
   - July 1st through September 30th - due by November 1st
   - October 1st through December 31st - due by February 1st

5. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring purposes, as required for the current site investigation and any associated remediation, so long as they are required for such activities and remain in good repair. **A new application shall be submitted and a permit obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**

6. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.

7. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2⅜ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

8. When the permittee receives approval or direction to permanently abandon the well(s), the District V Office of NMOSE shall be notified and provided with a plugging plan for review, modification as necessary, and approval. Approval of a plugging plan is required *prior* to initiation of *any* well

plugging activities. The well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC.

9. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

10. The State Engineer retains jurisdiction of this permit.

The application for temporary use of existing non-consumptive use well(s) permitted under SJ-4067 for pollution recovery purposes, to report amount of water removed collectively from site under SJ-4067 POD21, submitted on December 12, 2023, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 12th day of December, A.D. 2023.
Mike A. Hamman, P.E., State Engineer

By: _____
Miles Juett, Watermaster
District V Office, Water Rights Division

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 444265
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	9/3/2025
amaxwell	[7046] El Paso Natural Gas Company, L.L.C will transition from submitting annual monitoring and sampling reports, to submitting quarterly monitoring and sampling reports via the OCD Permitting site. It is understood that there is a mix of semi-annual and quarterly monitoring and sampling that occurs on this site. However, moving forward, quarterly submittal is required. Semi annual monitoring can be noted within the report as not collected during the selected quarterly events.	9/3/2025
amaxwell	Submit a C-141N for all monitoring and sampling events.	9/3/2025