2021 ANNUAL GROUNDWATER REPORT

NV

Johnston Fed #6A Incident Number: nAUTOfAB000309 Meter Code: 89232 T31N, R9W, Sec35, Unit F

SITE DETAILS

Site Location: Latitude: 36.856422 N, Longitude: -107.753819 W

Land Type: Federal

Operator: Hilcorp Energy

SITE BACKGROUND

Environmental Remediation activities at Johnston Fed #6A (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 New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Hilcorp Energy and is active.

The Site is located on Federal land. An initial site assessment was completed in August 1994, and an excavation of 80 cubic yards (cy), to a depth of approximately 12 feet below ground surface (bgs), was completed in September 1994. Monitoring wells were installed in 1994 (MW-1 through MW-4), 1997 (temporary monitoring wells PZ-01 through PZ-07), 2000 (MW-5), 2006 (MW-6), and 2015 (MW-7 through MW-9). In 2019 monitoring wells MW-10 and MW-11 were installed to confirm groundwater delineation. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring well and current and historical features is provided as Figure 2. Historically, light non-aqueous phase liquid (LNAPL) has periodically been encountered at MW-1, MW-2, and MW-3 and recovery has been periodically conducted since 1997. Mobile dual-phase extraction (MDPE) events to enhance hydrocarbon recovery were initiated in November 2016 and completed in September 2017, and in 2021. Quarterly LNAPL recovery began in the second quarter of 2020 and has continued through 2021. Currently, groundwater sampling is conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the NMOCD on May 12, 2021 and November 3, 2021, prior to initiating groundwater sampling activities at the Site. Copies of the 2021 NMOCD notifications are provided in Appendix A. On May 18, 2021 and November 15, 2021, water levels were gauged at MW-1 through MW-11. Groundwater samples were collected from MW-1, MW-3, MW-4 MW-5, MW-7, MW-8, and MW-9, on May 18, 2021. On November 15, 2021 groundwater samples were collected from MW-1 through MW-11. Groundwater samples were collected using HydraSleeveTM (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the well screen using a suspension tether and stainless-steel weights to collect a sample from 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-TestAmerica Laboratories, Inc. (Eurofins), in Pensacola, Florida, where they were analyzed for BTEX constituents. One laboratory supplied trip blank and one blind field duplicate sample were also collected during each groundwater sampling event. BTEX constituents were analyzed using EPA Method 8260.

The unused sample water was combined in a waste container and transported to Basin Disposal, Inc. (Basin) for disposal. Waste disposal documentation is included as Appendix B.

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LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities in the second calendar quarter of 2020 and continued with quarterly site visits in 2021 to measure and recover LNAPL, if present. Documentation of NMOCD notification of site activities is provided in Appendix A. The LNAPL recovery data is summarized on Table 1. Recovered LNAPL was containerized and transported to Basin for disposal. Waste disposal documentation is included in Appendix B.

NMOCD was notified on August 19, 2021, of a plan to conduct two MDPE events at the Site (Appendix A) to enhance hydrocarbon recovery from monitoring well MW-1. The MDPE events were completed by AcuVac Remediation, LLC, of Houston, Texas (AcuVac). MDPE is a process combining soil vapor extraction (SVE) with groundwater depression to enhance the removal of liquid and vapor phase hydrocarbons. A submersible pump is used to simultaneously remove the groundwater, inducing a hydraulic gradient toward the extraction well, and creating groundwater depression to expose the hydrocarbon smear zone to SVE. Recovered liquids were transferred to a portable storage tank for off-site disposal. Recovered vapors were used as fuel and burned in the MDPE internal combustion engine (ICE), resulting in little to no emissions. Power generated by the ICE is used to create the induced vacuum for SVE.

On August 26 and 31, 2021, two, 8-hour MDPE events were completed using MW-1 as extraction well. Based on field data collected by AcuVac, approximately 5.3 and 5.0 equivalent gallons of hydrocarbons were recovered from MW-1 during the August 26 and 31, 2021 MDPE events, respectively. AcuVac's report summarizing the MDPE events at the Site is presented as Appendix C. Recovered fluids from the MDPE events were transported to Basin Disposal Inc. for disposal. Waste documentation is included in Appendix B.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 2 and 3, respectively. LNAPL recovery data is summarized on Table 1.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2021 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix D.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the north-northeast during 2021 (see Figures 4 and 6).
- Approximately 0.01 foot of LNAPL was present in MW-1 on August 31, 2021 following an MDPE event. LNAPL was not observed in any site wells during the remainder of 2021.

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- Concentrations of benzene were either not detected or below the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [μg/L]) for groundwater in the site monitoring wells sampled in 2021.
- The concentration of toluene in the groundwater sample from MW-1 collected in November 2021 exceeded the NMWQCC standard (750 μg/L). Concentrations of toluene were either not detected or were below the NMWQCC standard (750 μg/L) for toluene in the remaining site monitoring wells sampled in 2021.
- The concentration of ethylbenzene in the groundwater sample from MW-1 collected in November 2021 exceeded the NMWQCC standard (750 μg/L). Concentrations of ethylbenzene were either below the NMWQCC standard (750 μg/L) or were not detected in the remaining monitoring wells sampled in 2021.
- The concentration of total xylenes in the groundwater samples from MW-1 collected in May and November 2021 exceeded the NMWQCC standard (620 μg/L). Concentrations of total xylenes were either not detected or were below the NMWQCC standard (620 μg/L) in groundwater from the remaining monitoring wells sampled in 2021.
- A field duplicate was collected from MW-4 for the May 2021 event and from monitoring well MW-1 for the November 2021 monitoring event. There were no significant differences between the primary sample and duplicate sample pairs during the 2021 groundwater sampling events.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2021 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

Removal and replacement of MW-1 is planned for Spring 2022. A work plan to conduct the monitoring well replacement activities will be submitted under separate cover.

Groundwater monitoring events will continue to be conducted on a semi-annual basis. As site closure is not being recommended at this time, 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 all site monitoring wells is conducted on a biennial basis, with the next site-wide sampling event planned for no later than the fourth calendar quarter of 2023.

Quarterly site visits will continue at the Site in 2022 to facilitate removal of measurable LNAPL where it is present.

The activities conducted in 2022, and their results, will be summarized in the 2022 Annual Report, to be submitted by April 1, 2023.

TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 3 – LNAPL RECOVERY SUMMARY

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY
Johnston Federal #6A

Well ID - MW-1	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
4/13/2016	38.40	38.49	0.09	0.01	<0.01	Manual
5/25/2016	38.41	38.51	0.10	0.02	<0.01	Manual
6/20/2016	NM	NM	0.02	0.01	<0.01	Manual
11/1/2018	38.60	38.61	0.01	<0.01	0.01	Manual
11/15/2016	38.59	38.60	0.01	<0.01	0.01	Manual
11/29/2016	38.61	38.65	0.04	4.38	168	Mobile DPE*
12/13/2016	38.60	38.61	0.01	<0.01	<0.01	Manual
5/24/2019	38.47	38.51	0.04	<0.01	<0.01	Manual
7/15/2017	38.54	38.58	0.04	<0.01	0.01	Manual
9/23/2017	ND	38.62	ND	20.2	590	Mobile DPE*
11/14/2019	39.01	39.02	0.01	<0.01	0.11	Manual
5/14/2020	39.01	39.02	0.01	<0.01	0.01	Manual
8/19/2020	39.08	39.08	<0.01	<0.01	0.25	Manual
11/13/2020	ND	39.10	0.00	0.00	0.00	manual
8/26/2021	ND	39.23	0.00	5.3	150	Mobile DPE*
8/31/2021	ND	39.28	0.00	5.0	159	Mobile DPE*
			Total:	34.9	908.4	

Notes:

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

ND = Not Detected.

LNAPL = Light non-aqueous phase liquid

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

^{* =} Includes calculated recovered hydrocarbon vapors.

^{-- =} No date recorded (recovery amounts combined with MW-4 MDPE event).

	Johnston Fed #6A							
		Benzene	Toluene	Ethylbenzene	Total Xylenes			
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)			
	CC Standards:	10	750	750	620			
MW-1	08/10/95	605	1380	74.6	718			
MW-1	12/13/95	1330	1610	235	1540			
MW-1	04/11/96	775	1070	124	810			
MW-1	07/23/96	676	1980	233	2090			
MW-1	10/14/96	1790	8350	580	6200			
MW-1	01/22/97	6420	19800	934	10700			
MW-1	04/11/97	7310	23500	1010	10800			
MW-1	06/18/01	NS	NS	NS	NS			
MW-1	09/04/01	NS	NS	NS	NS			
MW-1	03/04/02	NS	NS	NS	NS			
MW-1	06/04/02	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	06/17/05	NS	NS	NS	NS			
MW-1	09/20/05	NS	NS	NS	NS			
MW-1	12/14/05	NS	NS	NS	NS			
MW-1	03/25/06	NS	NS	NS	NS			
MW-1	03/27/06	NS	NS	NS	NS			
MW-1	06/06/06	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	03/05/09	NS	NS	NS	NS			
MW-1	06/02/09	NS	NS	NS	NS			
MW-1	08/28/09	NS	NS	NS	NS			
MW-1	11/04/09	NS	NS	NS	NS			

		Johnsto	on Fed #6A	1	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	C Standards:	10	750	750	620
MW-1	02/17/10	NS	NS	NS	NS
MW-1	05/24/10	NS	NS	NS	NS
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/02/10	NS	NS	NS	NS
MW-1	02/07/11	611	8260	1260	11600
MW-1	05/02/11	NS	NS	NS	NS
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/01/11	NS	NS	NS	NS
MW-1	02/21/12	577	5510	916	5420
MW-1	05/14/12	NS	NS	NS	NS
MW-1	06/09/13	510	17000	1400	15000
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	05/30/15	NS	NS	NS	NS
MW-1	11/19/15	NS	NS	NS	NS
MW-1	04/16/16	NS	NS	NS	NS
MW-1	10/13/16	NS	NS	NS	NS
MW-1	11/29/16	NS	NS	NS	NS
MW-1	07/15/17	NS	NS	NS	NS
MW-1	06/09/17	NS	NS	NS	NS
MW-1	09/23/17	NS	NS	NS	NS
MW-1	11/12/17	27	2800	560	3900
MW-1	05/16/18	27	2600	840	5600
DP-01(MW-1)*	05/16/18	30	3700	980	8000
MW-1	10/26/18	4.6	32	180	130
DUP-01(MW-1)*	10/26/18	4.5	37	170	140
MW-1	05/22/19	5.4	330	250	910
DUP-1(MW-1)*	05/22/19	<5.0	210	260	700
MW-1	11/12/19	NS	NS	NS	NS
MW-1	05/17/20	NS	NS	NS	NS
MW-1	11/13/20	1.5	200	30	140
DUP-1(MW-1)*	11/13/20	1.3	180	8.6	36
MW-1	05/18/21	6.3 J	430	230	1500
MW-1	11/15/21	<50	1600	700	5400
DUP-1(MW-1)*	11/15/21	<50	1700	700	6000
MW-2	12/13/95	15.1	50.8	<2.5	53.8
MW-2	04/11/96	<1	<1	<1	3.13
MW-2	07/23/96	<1	1.15	<1	4.06
MW-2	10/14/96	<1	1.04	<1	4.85

Johnston Fed #6A							
	_ ,	Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
	C Standards:	10	750	750	620		
MW-2	01/22/97	<1	<1	<1	<3		
MW-2	04/11/97	<1	<1	<1	<3		
MW-2	10/09/00	<0.5	<0.5	<0.5	<0.5		
MW-2	06/18/01	<0.5	<0.5	<0.5	<0.5		
MW-2	09/04/01	NS	NS	NS	NS		
MW-2	06/03/02	<0.5	<0.5	<0.5	<1		
MW-2	09/10/02	NS	NS	NS	NS		
MW-2	12/12/02	NS	NS	NS	NS		
MW-2	03/14/03	NS	NS	NS	NS		
MW-2	06/18/03	NS	NS	NS	NS		
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	NS	NS	NS	NS		
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	06/17/05	NS	NS	NS	NS		
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	06/06/06	NS	NS	NS	NS		
MW-2	09/25/06	NS	NS	NS	NS		
MW-2	12/07/06	NS NS	NS	NS NS	NS		
MW-2	03/28/07	NS NS	NS	NS NS	NS		
MW-2	06/18/07	NS NS	NS	NS NS	NS		
MW-2	09/17/07	NS NS	NS	NS NS	NS		
MW-2	12/17/07	NS NS	NS	NS NS	NS NS		
MW-2	03/10/08	NS NS	NS	NS NS	NS NS		
MW-2	06/17/08						
MW-2	09/10/08	NS NS	NS NS	NS NS	NS NS		
		NS NC	NS NS	NS NS	NS NS		
MW-2	12/02/08	NS NC	NS NC	NS NC	NS NC		
MW-2	03/05/09	NS NC	NS	NS NC	NS NG		
MW-2	06/02/09	NS	NS	NS	NS		
MW-2	08/28/09	NS NS	NS	NS	NS		
MW-2	11/04/09	NS	NS	NS	NS		
MW-2	02/17/10	NS	NS	NS	NS		
MW-2	05/24/10	NS	NS	NS	NS		
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		
MW-2	05/02/11	NS	NS	NS	NS		

		Johnsto	on Fed #6A	\	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)
NMWQC	C Standards:	10	750	750	620
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	NS	NS	NS	NS
MW-2	06/09/13	<0.14	< 0.30	<0.20	<0.23
MW-2	09/09/13	<0.14	<0.30	<0.20	<0.23
MW-2	12/12/13	<0.20	<0.38	<0.20	<0.65
MW-2	04/02/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-2	11/19/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/16/16	NS	NS	NS	NS
MW-2	10/13/16	NS	NS	NS	NS
MW-2	06/09/17	NS	NS	NS	NS
MW-2	11/12/17	<1.0	<1.0	<1.0	<10
MW-2	05/16/18	NS	NS	NS	NS
MW-2	10/26/18	NS	NS	NS	NS
MW-2	05/22/19	NS	NS	NS	NS
MW-2	11/12/19	NS	NS	NS	NS
MW-2	05/17/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-2)*	05/17/20	<1.0	<1.0	<1.0	<10
MW-2	11/13/20	NS	NS	NS	NS
MW-2	05/18/21	NS	NS	NS	NS
MW-2	11/15/21	<1.0	<1.0	<1.0	<10
MW-3	12/13/95	488	1020	104	1120
MW-3	04/11/96	772	231	113	379
MW-3	07/25/96	687	112	115	209
MW-3	10/14/96	900	240	140	340
MW-3	01/22/97	907	234	215	340
MW-3	04/11/97	944	209	223	322
MW-3	06/18/01	510	23	160	98
MW-3	09/04/01	NS	NS	NS	NS
MW-3	06/03/02	380	<5	110	29
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

	Johnston Fed #6A								
		Benzene	Toluene	Ethylbenzene	Total Xylenes				
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)				
	CC Standards:	10	750	750	620				
MW-3	12/21/04	NS	NS	NS	NS				
MW-3	03/23/05	NS	NS	NS	NS				
MW-3	06/17/05	NS	NS	NS	NS				
MW-3	09/20/05	NS	NS	NS	NS				
MW-3	12/14/05	NS	NS	NS	NS				
MW-3	03/25/06	NS	NS	NS	NS				
MW-3	03/27/06	NS	NS	NS	NS				
MW-3	06/06/06	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	03/05/09	1.2	17.9	9.4	59				
MW-3	06/02/09	NS	NS	NS	NS				
MW-3	08/28/09	NS	NS	NS	NS				
MW-3	11/04/09	NS	NS	NS	NS				
MW-3	02/17/10	3.2	4.5	3.4	25.9				
MW-3	05/24/10	NS	NS	NS	NS				
MW-3	09/24/10	NS	NS	NS	NS				
MW-3	11/02/10	NS	NS	NS	NS				
MW-3	02/07/11	8.6	1.3	6	13.1				
MW-3	05/02/11	NS	NS	NS	NS				
MW-3	09/23/11	NS	NS	NS	NS				
MW-3	11/01/11	NS	NS	NS	NS				
MW-3	02/21/12	4.7	7.6	23.1	19.1				
MW-3	05/14/12	NS	NS	NS	NS				
MW-3	06/09/13	<0.14	0.71 J	49	12				
MW-3	09/09/13	0.78 J	0.48 J	30	2.2 J				
MW-3	12/12/13	<0.20	51	23	5.4				
MW-3	04/02/14	3.5	57	19	8.7				
MW-3	10/23/14	<0.38	<0.70	6.2	<1.6				
MW-3	05/30/15	<1.0	<5.0	4.6	17				
MW-3	11/19/15	<1.0	2.5	2.1	<3.0				
MW-3	04/16/16	<1.0	52	1.9	<5.0				
MW-3	10/13/16	<1.0	61	1.9	<5.0				
MW-3	06/09/17	<1.0	<5.0	1.6	25				

		Johnsto	on Fed #6A	1	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	C Standards:	10	750	750	620
MW-3	11/12/17	<1.0	<1.0	<1.0	<10
MW-3	05/16/18	<1.0	<1.0	1.2	<10
MW-3	10/26/18	<1.0	<1.0	<1.0	<10
MW-3	05/22/19	<1.0	<1.0	<1.0	<10
MW-3	11/12/19	<1.0	<1.0	<1.0	<2.0
DUP-1(MW-3)*	11/12/19	<1.0	<1.0	<1.0	<2.0
MW-3	05/17/20	<1.0	<1.0	<1.0	<10
MW-3	11/13/20	<1.0	<1.0	<1.0	<10
MW-3	05/18/21	<1.0	<1.0	<1.0	<10
MW-3	11/15/21	<1.0	<1.0	<1.0	<10
MW-4	12/13/95	545	121	114	177
MW-4	04/11/96	591	160	133	193
MW-4	07/25/96	793	96.4	172	174
MW-4	10/14/96	800	100	130	235
MW-4	01/22/97	899	26.7	157	186
MW-4	04/11/97	703	20.1	149	138
MW-4	10/09/00	81	36	45	20
MW-4	06/18/01		70		
MW-4	09/04/01	490 NS		91 NS	96 NS
MW-4			NS	17	
MW-4	06/03/02	16	<5 NC		2.2
	09/10/02	NS	NS NC	NS NC	NS NC
MW-4 MW-4	12/12/02	NS	NS	NS	NS
	03/14/03	NS 11	NS 11	NS 4.7	NS 12
MW-4	06/18/03	<1 NC	<1 NO	1.7	<3 NO
MW-4	09/16/03	NS	NS	NS NG	NS NC
MW-4	12/17/03	NS	NS	NS	NS
MW-4	03/16/04	NS 0.50 I	NS	NS	NS
MW-4	06/22/04	0.56 J	1.1	2.8	<1 NO
MW-4	09/22/04	NS	NS	NS	NS
MW-4	12/21/04	NS 11	NS	NS	NS
MW-4	03/23/05	<1	<1 NO	<1	0.99
MW-4	06/17/05	NS	NS	NS	NS
MW-4	09/20/05	NS	NS	NS NC	NS
MW-4	12/14/05	NS 0.00 I	NS	NS	NS 0.00 I
MW-4	03/27/06	0.39 J	<1 NO	<1	0.83 J
MW-4	06/06/06	NS	NS	NS	NS
MW-4	09/25/06	NS	NS	NS	NS
MW-4	12/07/06	NS	NS	NS	NS
MW-4	03/28/07	0.39 J	0.6 J	<1	1.7 J
MW-4	06/18/07	NS	NS	NS	NS
MW-4	09/17/07	NS	NS	NS	NS

		Johnsto	n Fed #6A	\	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(μg/L)	(µg/L)
	C Standards:	10	750	750	620
MW-4	12/17/07	NS	NS	NS	NS
MW-4	03/10/08	0.25 J	<1	<1	<2
MW-4	06/17/08	NS	NS	NS	NS
MW-4	09/10/08	NS	NS	NS	NS
MW-4	12/02/08	NS	NS	NS	NS
MW-4	03/05/09	NS	NS	NS	NS
MW-4	06/02/09	NS	NS	NS	NS
MW-4	08/28/09	NS	NS	NS	NS
MW-4	11/04/09	NS	NS	NS	NS
MW-4	02/17/10	NS	NS	NS	NS
MW-4	05/24/10	NS	NS	NS	NS
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	05/02/11	NS	NS	NS	NS
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	NS	NS	NS	NS
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	0.51 J	<0.20	<0.65
MW-4	04/02/14	<0.20	1.2 J	<0.20	<0.65
MW-4	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-4	11/19/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/16/16	NS	NS	NS	NS
MW-4	10/13/16	NS	NS	NS	NS
MW-4	06/09/17	NS	NS	NS	NS
MW-4	11/12/17	<1.0	<1.0	<1.0	<10
MW-4	05/16/18	NS	NS	NS	NS
MW-4	10/26/18	NS NS	NS	NS NS	NS NS
MW-4	05/22/19	NS NS	NS	NS NS	NS NS
MW-4	11/12/19				
MW-4	05/17/20	NS <1.0	NS <1.0	NS -1.0	NS <10
		<1.0	<1.0	<1.0	<10
MW-4	11/13/20	<1.0	<1.0	<1.0	<10
MW-4	05/18/21	<1.0	<1.0	<1.0	<10
DUP-1(MW-4)*	05/18/21	<1.0	<1.0	<1.0	<10
MW-4	11/15/21	<1.0	<1.0	<1.0	<10
1004 5	00/00/00				
MW-5	08/30/00	130	180	56	650
MW-5	06/18/01	170	300	68	630

		Johnsto	on Fed #6A	A	
		Benzene	Toluene	Ethylbenzene	Total Xylenes
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	CC Standards:	10	750	750	620
MW-5	09/04/01	NS	NS	NS	NS
MW-5	06/04/02	43	87	31	360
MW-5	09/10/02	NS	NS	NS	NS
MW-5	12/12/02	NS	NS	NS	NS
MW-5	03/14/03	NS	NS	NS	NS
MW-5	06/18/03	NS	NS	NS	NS
MW-5	09/16/03	NS	NS	NS	NS
MW-5	12/17/03	NS	NS	NS	NS
MW-5	03/16/04	NS	NS	NS	NS
MW-5	06/22/04	NS	NS	NS	NS
MW-5	09/22/04	NS	NS	NS	NS
MW-5	12/21/04	NS	NS	NS	NS
MW-5	03/23/05	NS	NS	NS	NS
MW-5	06/17/05	NS	NS	NS	NS
MW-5	09/20/05	NS	NS	NS	NS
MW-5	12/14/05	NS	NS	NS	NS
MW-5	03/27/06	NS	NS	NS	NS
MW-5	06/06/06	NS	NS	NS	NS
MW-5	09/25/06	NS	NS	NS	NS
MW-5	12/07/06	NS	NS	NS	NS
MW-5	03/28/07	NS	NS	NS	NS
MW-5	06/18/07	NS	NS	NS	NS
MW-5	09/17/07	NS	NS	NS	NS
MW-5	12/17/07	NS	NS	NS	NS
MW-5	03/10/08	NS	NS	NS	NS
MW-5	06/17/08	NS	NS	NS	NS
MW-5	09/10/08	NS	NS	NS	NS
MW-5	12/02/08	NS	NS	NS	NS
MW-5	03/05/09	1.9	9.8	44	120
MW-5	06/02/09	NS	NS	NS	NS
MW-5	08/28/09	NS	NS	NS	NS
MW-5	11/04/09	NS	NS	NS	NS
MW-5	02/17/10	1.7	2.6	2.7	19.2
MW-5	05/24/10	NS	NS	NS	NS
MW-5	09/24/10	NS	NS	NS	NS
MW-5	11/02/10	NS	NS	NS	NS
MW-5	02/07/11	11.9	920	177	1870
MW-5	05/02/11	NS	NS	NS	NS
MW-5	09/23/11	NS	NS	NS	NS
MW-5	11/01/11	NS	NS	NS	NS
MW-5	02/21/12	2.7	1.7	5.2	85.5
MW-5	05/14/12	NS	NS	NS	NS

Johnston Fed #6A							
Lagation	Data	Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
	CC Standards:	10	750	750	620		
MW-5	06/09/13	<0.14	<0.30	0.31 J	0.79 J		
MW-5	09/09/13	<0.14	<0.30	<0.20	<0.23		
MW-5	12/12/13	<0.20	<0.38	<0.20	<0.65		
MW-5	04/02/14	<0.20	<0.38	<0.20	<0.65		
MW-5	10/23/14	<0.38	0.96 J	<0.50	1.9 J		
MW-5	05/30/15	<1.0	<5.0	<1.0	2.1 J		
MW-5	11/19/15	<1.0	<1.0	<1.0	<3.0		
MW-5	04/16/16	<1.0	<5.0	<1.0	<5.0		
MW-5	10/13/16	<1.0	<5.0	<1.0	<5.0		
MW-5	06/09/17	<1.0	<5.0	<1.0	<5.0		
MW-5	11/12/17	<1.0	<1.0	<1.0	<10		
MW-5	05/16/18	<1.0	<1.0	<1.0	<10		
MW-5	10/26/18	<1.0	<1.0	<1.0	<10		
MW-5	05/22/19	<1.0	<1.0	<1.0	<10		
MW-5	11/12/19	<1.0	<1.0	<1.0	<2.0		
MW-5	05/17/20	<1.0	<1.0	<1.0	<10		
MW-5	11/13/20	<1.0	<1.0	<1.0	<10		
MW-5	05/18/21	<1.0	<1.0	<1.0	<10		
MW-5	11/15/21	<1.0	<1.0	<1.0	<10		
MW-6	12/07/06	NS	NS	NS	NS		
MW-6	03/28/07	<1	<1	<1	<2		
MW-6	06/18/07	NS	NS	NS	NS		
MW-6	09/17/07	NS	NS	NS	NS		
MW-6	12/17/07	NS	NS	NS	NS		
MW-6	03/10/08	9.4	<1	0.5 J	139		
MW-6	03/05/09	<1	<1	<1	<2		
MW-6	06/02/09	NS	NS	NS	NS		
MW-6	08/28/09	NS	NS	NS	NS		
MW-6	11/04/09	NS	NS	NS	NS		
MW-6	05/24/10	NS	NS	NS	NS		
MW-6	09/24/10	NS	NS	NS	NS		
MW-6	11/02/10	NS	NS	NS	NS		
MW-6	02/07/11	<1	<1	<1	<2		
MW-6	05/02/11	NS	NS	NS	NS		
MW-6	09/23/11	NS NS	NS	NS NS	NS NS		
MW-6	11/01/11	NS NS	NS NS	NS NS	NS NS		
MW-6	02/21/12	<1	<1 <1	<1	<2		
MW-6	05/14/12						
		NS -0.11	NS <0.30	NS	NS <0.22		
MW-6	06/09/13	<0.14	<0.30	<0.20	<0.23		
MW-6	09/09/13	<0.14	<0.30	<0.20	<0.23		
MW-6	12/12/13	<0.20	<0.38	<0.20	<0.65		

Johnston Fed #6A							
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)		
NMWQC	C Standards:	10	750	750	620		
MW-6	10/23/14	<0.38	< 0.70	<0.50	<1.6		
MW-6	04/02/14	<0.20	<0.38	<0.20	<0.65		
MW-6	05/30/15	<1.0	<5.0	<1.0	<5.0		
MW-6	11/19/15	<1.0	<1.0	<1.0	<3.0		
MW-6	04/16/16	NS	NS	NS	NS		
MW-6	10/13/16	NS	NS	NS	NS		
MW-6	06/09/17	NS	NS	NS	NS		
MW-6	11/12/17	<1.0	<1.0	<1.0	<10		
MW-6	05/16/18	NS	NS	NS	NS		
MW-6	10/26/18	NS	NS	NS	NS		
MW-6	05/22/19	NS	NS	NS	NS		
MW-6	11/12/19	NS	NS	NS	NS		
MW-6	05/17/20	<1.0	<1.0	<1.0	<10		
MW-6	11/13/20	NS	NS	NS	NS		
MW-6	05/18/21	NS	NS	NS	NS		
MW-6	11/15/21	<1.0	<1.0	<1.0	<10		
					-		
MW-7	11/19/15	<1.0	<1.0	<1.0	<3.0		
MW-7	04/16/16	<1.0	<5.0	<1.0	<5.0		
MW-7	10/13/16	<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	<1.0	<1.0	<1.0	<10		
MW-7	10/26/18	<1.0	<1.0	<1.0	<10		
MW-7	05/22/19	<1.0	<1.0	<1.0	<10		
MW-7	11/12/19	<1.0	<1.0	<1.0	<2.0		
MW-7	05/17/20	<1.0	<1.0	<1.0	<10		
MW-7	11/13/20	<1.0	<1.0	<1.0	<10		
MW-7	05/18/21	<1.0	<1.0	<1.0	<10		
MW-7	11/15/21	<1.0	<1.0	<1.0	<10		
		1.0	11.0	11.0	110		
MW-8	11/19/15	<1.0	<1.0	<1.0	<3.0		
MW-8	04/16/16	<1.0	<5.0	<1.0	<5.0		
MW-8	10/13/16	<1.0	<5.0	<1.0	<5.0		
MW-8	06/09/17	<1.0	<5.0	<1.0	<5.0		
MW-8	11/12/17	<1.0	<1.0	<1.0	<10		
MW-8	05/16/18	<1.0	<1.0	<1.0	<10		
MW-8	10/26/18	<1.0	<1.0	<1.0	<10		
MW-8	05/22/19	<1.0	<1.0	<1.0	<10		
MW-8	11/12/19	<1.0	<1.0	<1.0	<2.0		
MW-8	05/17/20	<1.0	<1.0	<1.0	<10		
MW-8	11/13/20	<1.0	<1.0	<1.0	<10		
IVIVV-O	11/13/20	\1.U	\1.0	\1.0	<u> </u>		

	Johnston Fed #6A								
		Benzene	Toluene	Ethylbenzene	Total Xylenes				
Location	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)				
NMWQC	C Standards:	10	750	750	620				
MW-8	05/18/21	<1.0	<1.0	<1.0	<10				
MW-8	11/15/21	<1.0	<1.0	<1.0	<10				
MW-9	11/19/15	<1.0	<1.0	<1.0	<3.0				
MW-9	04/16/16	<1.0	<5.0	<1.0	<5.0				
MW-9	10/13/16	<1.0	<5.0	<1.0	<5.0				
MW-9	06/09/17	<1.0	<5.0	<1.0	<5.0				
MW-9	11/12/17	<1.0	<1.0	<1.0	<10				
MW-9	05/16/18	<1.0	<1.0	<1.0	<10				
MW-9	10/26/18	<1.0	<1.0	<1.0	<10				
MW-9	05/22/19	<1.0	<1.0	<1.0	<10				
MW-9	11/12/19	<1.0	<1.0	<1.0	<2.0				
MW-9	05/17/20	<1.0	<1.0	<1.0	<10				
MW-9	11/13/20	<1.0	<1.0	<1.0	<10				
MW-9	05/18/21	<1.0	<1.0	<1.0	<10				
MW-9	11/15/21	<1.0	<1.0	<1.0	<10				
MW-10	11/12/19	<1.0	<1.0	<1.0	<2.0				
MW-10	05/17/20	<1.0	<1.0	<1.0	<10				
MW-10	11/13/20	NS	NS	NS	NS				
MW-10	05/18/21	NS	NS	NS	NS				
MW-10	11/15/21	<1.0	<1.0	<1.0	<10				
MW-11	11/12/19	<1.0	<1.0	<1.0	<2.0				
MW-11	05/17/20	<1.0	<1.0	<1.0	<10				
MW-11	11/13/20	NS	NS	NS	NS				
MW-11	05/18/21	NS	NS	NS	NS				
MW-11	11/15/21	<1.0	<1.0	<1.0	<10				

Notes:

The groundwater monitoring dates for each monitoring well where no groundwater samples were collected and analyzed have been omitted.

Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.

[&]quot;µg/L" = micrograms per liter

[&]quot;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.

[&]quot;<" = 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

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	08/10/95	6001.88	NR	37.24	(1.1.)	5964.64
MW-1	12/13/95	6001.88	NR	37.35		5964.53
MW-1	04/11/96	6001.88	NR	37.48		5964.40
MW-1	07/23/96	6001.88	NR	37.55		5964.33
MW-1	10/14/96	6001.88	37.07	37.22	0.15	5964.78
MW-1	01/22/97	6001.88	37.43	38.26	0.83	5964.25
MW-1	04/11/97	6001.88	37.20	38.31	1.11	5964.41
MW-1	06/18/01	6001.88	37.34	38.21	0.87	5964.33
MW-1	09/04/01	6001.88	37.54	38.27	0.73	5964.16
MW-1	03/04/02	6001.88	37.74	38.35	0.61	5963.99
MW-1	06/04/02	6001.88	37.81	38.14	0.33	5963.99
MW-1	09/10/02	6001.88	38.00	38.24	0.23	5963.83
MW-1	12/12/02	6001.88	38.01	38.11	0.10	5963.85
MW-1	03/14/03	6001.88	37.95	38.08	0.13	5963.90
MW-1	06/18/03	6001.88	37.88	38.47	0.59	5963.86
MW-1	09/16/03	6001.88	38.17	38.25	0.08	5963.69
MW-1	12/17/03	6001.88	38.13	38.23	0.10	5963.73
MW-1	03/16/04	6001.88	37.90	38.57	0.67	5963.82
MW-1	06/22/04	6001.88	37.90	38.65	0.75	5963.80
MW-1	09/22/04	6001.88	38.21	38.60	0.39	5963.58
MW-1	12/21/04	6001.88	38.20	38.38	0.18	5963.64
MW-1	03/23/05	6001.88	37.95	38.50	0.55	5963.80
MW-1	06/17/05	6001.88	38.13	38.62	0.49	5963.63
MW-1	09/20/05	6001.88	38.40	38.83	0.43	5963.38
MW-1	12/14/05	6001.88	38.31	38.72	0.41	5963.47
MW-1	03/25/06	6001.88	38.15	38.66	0.51	5963.61
MW-1	03/27/06	6001.88	38.05	38.62	0.57	5963.69
MW-1	06/06/06	6001.88	38.29	38.84	0.55	5963.46
MW-1	09/25/06	6001.88	38.51	39.01	0.50	5963.25
MW-1	12/07/06	6001.88	ND	38.33		5963.55
MW-1	03/28/07	6001.88	38.02	38.09	0.07	5963.85
MW-1	06/18/07	6001.88	38.09	38.86	0.77	5963.60
MW-1	09/17/07	6001.88	38.40	39.32	0.92	5963.25
MW-1	12/17/07	6001.88	38.42	39.13	0.71	5963.29
MW-1	03/10/08	6001.88	37.90	38.24	0.34	5963.90
MW-1	06/17/08	6001.88	37.38	37.71	0.33	5964.42
MW-1	09/10/08	6001.88	37.41	37.72	0.31	5964.40
MW-1	12/02/08	6001.88	37.51	37.89	0.38	5964.28
MW-1	03/05/09	6001.88	37.20	37.63	0.43	5964.58

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	06/02/09	6001.88	37.49	37.83	0.34	5964.31
MW-1	08/28/09	6001.88	37.65	37.99	0.34	5964.15
MW-1	11/04/09	6001.88	ND	37.77		5964.11
MW-1	02/17/10	6001.88	37.60	38.11	0.51	5964.16
MW-1	05/24/10	6001.88	37.81	38.27	0.46	5963.96
MW-1	09/24/10	6001.88	38.05	38.46	0.41	5963.73
MW-1	11/02/10	6001.88	38.16	38.55	0.39	5963.63
MW-1	02/07/11	6001.88	37.93	38.37	0.44	5963.84
MW-1	05/02/11	6001.88	ND	38.57		5963.31
MW-1	09/23/11	6001.88	38.32	38.75	0.43	5963.46
MW-1	11/01/11	6001.88	ND	38.80		5963.08
MW-1	02/21/12	6001.88	38.21	38.65	0.44	5963.56
MW-1	05/14/12	6001.88	38.36	38.84	0.48	5963.40
MW-1	06/09/13	6001.88	38.41	39.22	0.81	5963.27
MW-1	09/09/13	6001.88	38.60	39.21	0.61	5963.13
MW-1	12/12/13	6001.88	38.65	39.01	0.36	5963.14
MW-1	04/02/14	6001.88	38.61	38.94	0.33	5963.19
MW-1	10/23/14	6001.88	38.82	39.03	0.21	5963.01
MW-1	05/30/15	6001.88	38.86	39.04	0.18	5962.98
MW-1	11/19/15	6001.88	38.58	38.70	0.12	5963.27
MW-1	04/16/16	6001.88	38.40	38.49	0.09	5963.46
MW-1	10/13/16	6001.88	38.60	38.61	0.01	5963.28
MW-1	11/29/16	6001.88	38.61	38.65	0.04	5963.26
MW-1	06/09/17	6001.88	38.47	38.51	0.04	5963.40
MW-1	07/15/17	6001.88	38.54	38.58	0.04	5963.33
MW-1	09/23/17	6001.88	ND	38.62		5963.26
MW-1	11/12/17	6001.88	ND	38.69		5963.19
MW-1	05/16/18	6001.88	ND	38.68		5963.20
MW-1	10/26/18	6001.88	ND	38.87		5963.01
MW-1	05/22/19	6001.88	ND	38.90		5962.98
MW-1	11/12/19	6001.88	39.01	39.02	0.01	5962.87
MW-1	05/17/20	6001.88	39.01	39.02	0.01	5962.87
MW-1	08/19/20	6001.88	39.08	39.08	0.01	5962.81
MW-1	11/13/20	6001.88	ND	39.10		5962.78
MW-1	03/18/21	6001.88	ND	39.21		5962.67
MW-1	05/18/21	6001.88	ND	39.16		5962.72
MW-1	08/26/21	6001.88	ND	39.23		5962.65
MW-1	08/31/21	6001.88	ND	39.28		5962.60
MW-1	11/15/21	6001.88	ND	39.24		5962.64

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
NAVA / O	12/12/05	6004 92	ND	27.20		5004.40
MW-2	12/13/95	6001.82	NR	37.39		5964.43
MW-2	04/11/96	6001.82	NR	37.47		5964.35
MW-2	07/23/96	6001.82	NR	37.60		5964.22
MW-2	10/14/96	6001.82	NR	37.70		5964.12
MW-2	01/22/97	6001.82	NR	37.66		5964.16
MW-2	04/11/97	6001.82	NR	37.58		5964.24
MW-2	10/09/00	6001.82	NR	37.56		5964.26
MW-2	06/18/01	6001.82	NR	37.58		5964.24
MW-2	09/04/01	6001.82	NR	37.75		5964.07
MW-2	06/03/02	6001.82	NR	37.88		5963.94
MW-2	09/10/02	6001.82	NR	38.02		5963.80
MW-2	12/12/02	6001.82	NR	38.01		5963.81
MW-2	03/14/03	6001.82	ND	37.97		5963.85
MW-2	06/18/03	6001.82	ND	38.01		5963.81
MW-2	09/16/03	6001.82	ND	38.18		5963.64
MW-2	12/17/03	6001.82	ND	38.13		5963.69
MW-2	03/16/04	6001.82	ND	38.04		5963.78
MW-2	06/22/04	6001.82	ND	38.05		5963.77
MW-2	09/22/04	6001.82	ND	38.26		5963.56
MW-2	12/21/04	6001.82	ND	38.20		5963.62
MW-2	03/23/05	6001.82	ND	38.07		5963.75
MW-2	06/17/05	6001.82	ND	38.07		5963.75
MW-2	09/20/05	6001.82	ND	38.33		5963.49
MW-2	12/14/05	6001.82	ND	38.24		5963.58
MW-2	03/27/06	6001.82	ND	38.16		5963.66
MW-2	06/06/06	6001.82	ND	38.22		5963.60
MW-2	09/25/06	6001.82	ND	38.42		5963.40
MW-2	12/07/06	6001.82	ND	38.35		5963.47
MW-2	03/28/07	6001.82	ND	38.13		5963.69
MW-2	06/18/07	6001.82	ND	38.14		5963.68
MW-2	09/17/07	6001.82	ND	38.35		5963.47
MW-2	12/17/07	6001.82	ND	38.33		5963.49
MW-2	03/10/08	6001.82	ND	37.80		5964.02
MW-2	06/17/08	6001.82	ND	37.41		5964.41
MW-2	09/10/08	6001.82	ND	37.40		5964.42
MW-2	12/02/08	6001.82	ND	37.39		5964.43
MW-2	03/05/09	6001.82	ND	37.38		5964.44
MW-2	06/02/09	6001.82	ND	37.40		5964.42

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	08/28/09	6001.82	ND ` ,	37.60		5964.22
MW-2	11/04/09	6001.82	ND	37.73		5964.09
MW-2	02/17/10	6001.82	ND	37.76		5964.06
MW-2	05/24/10	6001.82	ND	37.77		5964.05
MW-2	09/24/10	6001.82	ND	37.97		5963.85
MW-2	11/02/10	6001.82	ND	38.01		5963.81
MW-2	02/07/11	6001.82	ND	38.05		5963.77
MW-2	05/02/11	6001.82	ND	38.09		5963.73
MW-2	09/23/11	6001.82	38.23	38.25	0.02	5963.59
MW-2	11/01/11	6001.82	ND	38.26		5963.56
MW-2	02/21/12	6001.82	ND	38.31		5963.51
MW-2	05/14/12	6001.82	ND	38.36		5963.46
MW-2	06/09/13	6001.82	ND	38.56		5963.26
MW-2	09/09/13	6001.82	ND	38.68		5963.14
MW-2	12/12/13	6001.82	ND	38.67		5963.15
MW-2	04/02/14	6001.82	ND	38.63		5963.19
MW-2	10/23/14	6001.82	ND	38.79		5963.03
MW-2	05/30/15	6001.82	ND	38.82		5963.00
MW-2	11/19/15	6001.82	ND	38.56		5963.26
MW-2	04/16/16	6001.82	ND	38.39		5963.43
MW-2	10/13/16	6001.82	ND	38.58		5963.24
MW-2	06/09/17	6001.82	ND	38.44		5963.38
MW-2	11/12/17	6001.82	ND	38.65		5963.17
MW-2	05/16/18	6001.82	ND	38.83		5962.99
MW-2	10/26/18	6001.82	ND	38.81		5963.01
MW-2	05/22/19	6001.82	ND	38.82		5963.00
MW-2	11/12/19	6001.82	ND	38.95		5962.87
MW-2	05/17/20	6001.82	ND	38.94		5962.88
MW-2	11/13/20	6001.82	ND	39.02		5962.80
MW-2	05/18/21	6001.82	ND	39.05		5962.77
MW-2	08/26/21	6001.82	ND	39.12		5962.70
MW-2	11/15/21	6001.82	ND	39.11		5962.71
MW-3	12/13/95	6001.21	NR	37.11		5964.10
MW-3	04/11/96	6001.21	NR	37.17		5964.04
MW-3	07/25/96	6001.21	NR	37.30		5963.91
MW-3	10/14/96	6001.21	NR	37.40		5963.81
MW-3	01/22/97	6001.21	NR	37.35		5963.86
MW-3	04/11/97	6001.21	NR	37.29		5963.92

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	06/18/01	6001.21	NR	37.26	i momioso (i ii)	5963.95
MW-3	09/04/01	6001.21	NR	37.42		5963.79
MW-3	06/03/02	6001.21	NR	37.55		5963.66
MW-3	12/12/02	6001.21	NR	37.70		5963.51
MW-3	03/14/03	6001.21	ND	37.66		5963.55
MW-3	06/18/03	6001.21	37.63	37.87	0.24	5963.52
MW-3	09/16/03	6001.21	37.87	37.89	0.02	5963.34
MW-3	12/17/03	6001.21	ND	37.80		5963.41
MW-3	03/16/04	6001.21	37.72	37.85	0.13	5963.46
MW-3	06/22/04	6001.21	37.72	37.88	0.16	5963.45
MW-3	09/22/04	6001.21	37.96	38.07	0.11	5963.23
MW-3	12/21/04	6001.21	37.93	37.96	0.03	5963.28
MW-3	03/23/05	6001.21	37.80	37.88	0.08	5963.39
MW-3	06/17/05	6001.21	ND	37.92		5963.29
MW-3	09/20/05	6001.21	ND	38.16		5963.05
MW-3	12/14/05	6001.21	ND	38.09		5963.12
MW-3	03/25/06	6001.21	ND	38.09		5963.12
MW-3	03/27/06	6001.21	ND	37.88		5963.33
MW-3	06/06/06	6001.21	ND	37.98		5963.23
MW-3	09/25/06	6001.21	ND	38.16		5963.05
MW-3	12/07/06	6001.21	ND	38.06		5963.15
MW-3	03/28/07	6001.21	ND	37.87		5963.34
MW-3	06/18/07	6001.21	ND	37.86		5963.35
MW-3	09/17/07	6001.21	ND	38.10		5963.11
MW-3	12/17/07	6001.21	ND	38.09		5963.12
MW-3	03/10/08	6001.21	ND	37.80		5963.41
MW-3	06/17/08	6001.21	ND	37.10		5964.11
MW-3	09/10/08	6001.21	ND	37.13		5964.08
MW-3	12/02/08	6001.21	ND	37.14		5964.07
MW-3	03/05/09	6001.21	ND	37.14		5964.07
MW-3	06/02/09	6001.21	ND	37.12		5964.09
MW-3	08/28/09	6001.21	ND	37.40		5963.81
MW-3	11/04/09	6001.21	ND	37.52		5963.69
MW-3	02/17/10	6001.21	ND	37.53		5963.68
MW-3	05/24/10	6001.21	ND	37.53		5963.68
MW-3	09/24/10	6001.21	ND	37.72		5963.49
MW-3	11/02/10	6001.21	ND	37.79		5963.42
MW-3	02/07/11	6001.21	ND	37.83		5963.38
MW-3	05/02/11	6001.21	ND	38.86		5962.35

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	09/23/11	6001.21	ND	38.02	i i i i i i i i i i i i i i i i i i i	5963.19
MW-3	11/01/11	6001.21	ND	38.06		5963.15
MW-3	02/21/12	6001.21	ND	38.11		5963.10
MW-3	05/14/12	6001.21	ND	38.15		5963.06
MW-3	06/09/13	6001.21	ND	38.32		5962.89
MW-3	09/09/13	6001.21	ND	38.48		5962.73
MW-3	12/12/13	6001.21	ND	38.45		5962.76
MW-3	04/02/14	6001.21	ND	38.42		5962.79
MW-3	10/23/14	6001.21	ND	38.57		5962.64
MW-3	05/30/15	6001.21	ND	38.60		5962.61
MW-3	11/19/15	6001.21	ND	38.31		5962.90
MW-3	04/16/16	6001.21	ND	38.15		5963.06
MW-3	10/13/16	6001.21	ND	38.36		5962.85
MW-3	06/09/17	6001.21	ND	38.23		5962.98
MW-3	11/12/17	6001.21	ND	38.44		5962.77
MW-3	05/16/18	6001.21	ND	38.45		5962.76
MW-3	10/26/18	6001.21	ND	38.63		5962.58
MW-3	05/22/19	6001.21	ND	38.66		5962.55
MW-3	11/12/19	6001.21	ND	38.76		5962.45
MW-3	05/17/20	6001.21	ND	38.78		5962.43
MW-3	11/13/20	6001.21	ND	38.88		5962.33
MW-3	05/18/21	6001.21	ND	38.93		5962.28
MW-3	08/26/21	6001.21	ND	39.01		5962.20
MW-3	11/15/21	6001.21	ND	39.01		5962.20
MW-4	12/13/95	6001.26	NR	37.34		5963.92
MW-4	04/11/96	6001.26	NR	37.42		5963.84
MW-4	07/25/96	6001.26	NR	37.54		5963.72
MW-4	10/14/96	6001.26	NR	37.64		5963.62
MW-4	01/22/97	6001.26	NR	37.60		5963.66
MW-4	04/11/97	6001.26	NR	37.47		5963.79
MW-4	10/09/00	6001.26	NR	37.56		5963.70
MW-4	06/18/01	6001.26	NR	37.53		5963.73
MW-4	09/04/01	6001.26	NR	37.66		5963.60
MW-4	06/03/02	6001.26	NR	37.80		5963.46
MW-4	09/10/02	6001.26	NR	37.95		5963.32
MW-4	12/12/02	6001.26	NR	38.95		5962.31
MW-4	03/14/03	6001.26	ND	37.91		5963.36
MW-4	06/18/03	6001.26	ND	37.95		5963.31

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	09/16/03	6001.26	ND	38.17	i i i i i i i i i i i i i i i i i i i	5963.09
MW-4	12/17/03	6001.26	ND	38.06		5963.20
MW-4	03/16/04	6001.26	ND	38.00		5963.26
MW-4	06/22/04	6001.26	ND	38.04		5963.22
MW-4	09/22/04	6001.26	ND	38.27		5962.99
MW-4	12/21/04	6001.26	ND	38.23		5963.03
MW-4	03/23/05	6001.26	ND	38.11		5963.15
MW-4	06/17/05	6001.26	ND	38.08		5963.18
MW-4	09/20/05	6001.26	ND	38.35		5962.91
MW-4	12/14/05	6001.26	ND	38.24		5963.02
MW-4	03/27/06	6001.26	ND	38.16		5963.10
MW-4	06/06/06	6001.26	ND	38.24		5963.02
MW-4	09/25/06	6001.26	ND	38.45		5962.81
MW-4	12/07/06	6001.26	ND	38.34		5962.92
MW-4	03/28/07	6001.26	ND	38.16		5963.10
MW-4	06/18/07	6001.26	ND	38.14		5963.12
MW-4	09/17/07	6001.26	ND	38.37		5962.89
MW-4	12/17/07	6001.26	ND	38.36		5962.90
MW-4	03/10/08	6001.26	ND	38.05		5963.21
MW-4	06/17/08	6001.26	ND	37.35		5963.91
MW-4	09/10/08	6001.26	ND	37.43		5963.83
MW-4	12/02/08	6001.26	ND	37.40		5963.86
MW-4	03/05/09	6001.26	ND	37.40		5963.86
MW-4	06/02/09	6001.26	ND	37.43		5963.83
MW-4	08/28/09	6001.26	ND	37.64		5963.62
MW-4	11/04/09	6001.26	ND	37.76		5963.50
MW-4	02/17/10	6001.26	ND	37.80		5963.46
MW-4	05/24/10	6001.26	ND	37.80		5963.46
MW-4	09/24/10	6001.26	ND	38.03		5963.23
MW-4	11/02/10	6001.26	ND	38.05		5963.21
MW-4	02/07/11	6001.26	ND	38.08		5963.18
MW-4	05/02/11	6001.26	ND	38.15		5963.11
MW-4	09/23/11	6001.26	ND	38.30		5962.96
MW-4	11/01/11	6001.26	ND	38.32		5962.94
MW-4	02/21/12	6001.26	ND	38.37		5962.89
MW-4	05/14/12	6001.26	ND	38.40		5962.86
MW-4	06/09/13	6001.26	ND	38.62		5962.64
MW-4	09/09/13	6001.26	ND	38.79		5962.47
MW-4	12/12/13	6001.26	ND	38.77		5962.49

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	04/02/14	6001.26	ND	38.74	i monitore (i ii)	5962.52
MW-4	10/23/14	6001.26	ND	38.94		5962.32
MW-4	05/30/15	6001.26	ND	38.61		5962.65
MW-4	11/19/15	6001.26	ND	38.62		5962.64
MW-4	04/16/16	6001.26	ND	38.46		5962.80
MW-4	10/13/16	6001.26	ND	38.67		5962.59
MW-4	06/09/17	6001.26	ND	38.52		5962.74
MW-4	11/12/17	6001.26	ND	38.75		5962.51
MW-4	05/16/18	6001.26	ND	38.77		5962.49
MW-4	10/26/18	6001.26	ND	39.01		5962.25
MW-4	05/22/19	6001.26	ND	39.06		5962.20
MW-4	11/12/19	6001.26	ND	39.20		5962.06
MW-4	05/17/20	6001.26	ND	39.25		5962.01
MW-4	11/13/20	6001.26	ND	39.43		5961.83
MW-4	05/18/21	6001.26	ND	39.52		5961.74
MW-4	08/26/21	6001.26	ND	39.63		5961.63
MW-4	11/15/21	6001.26	ND	39.65		5961.61
MW-5	08/30/00	6001.96	NR	38.11		5963.85
MW-5	06/18/01	6001.96	NR	38.13		5963.83
MW-5	09/04/01	6001.96	NR	38.33		5963.63
MW-5	06/04/02	6001.96	NR	38.51		5963.45
MW-5	09/10/02	6001.96	NR	39.13		5962.84
MW-5	12/12/02	6001.96	NR	38.83		5963.13
MW-5	03/14/03	6001.96	ND	38.70		5963.26
MW-5	06/18/03	6001.96	ND	38.85		5963.11
MW-5	09/16/03	6001.96	ND	38.88		5963.08
MW-5	12/17/03	6001.96	ND	38.75		5963.21
MW-5	03/16/04	6001.96	ND	38.72		5963.24
MW-5	06/22/04	6001.96	ND	38.74		5963.22
MW-5	09/22/04	6001.96	ND	38.74		5963.22
MW-5	12/21/04	6001.96	ND	38.93		5963.03
MW-5	03/23/05	6001.96	ND	38.72		5963.24
MW-5	06/17/05	6001.96	ND	38.72		5963.24
MW-5	09/20/05	6001.96	ND	39.06		5962.90
MW-5	12/14/05	6001.96	ND	38.94		5963.02
MW-5	03/27/06	6001.96	ND	38.86		5963.10
MW-5	06/06/06	6001.96	ND	38.97		5962.99
MW-5	09/25/06	6001.96	ND	37.20		5964.76

	Johnston Fed #6A								
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)			
MW-5	12/07/06	6001.96	ND	39.07	(100)	5962.89			
MW-5	03/28/07	6001.96	ND	38.83		5963.13			
MW-5	06/18/07	6001.96	ND	38.84		5963.12			
MW-5	09/17/07	6001.96	ND	39.09		5962.87			
MW-5	12/17/07	6001.96	ND	39.04		5962.92			
MW-5	03/10/08	6001.96	ND	38.48		5963.48			
MW-5	06/17/08	6001.96	ND	37.83		5964.13			
MW-5	09/10/08	6001.96	ND	37.91		5964.05			
MW-5	12/02/08	6001.96	ND	37.95		5964.01			
MW-5	03/05/09	6001.96	ND	37.93		5964.03			
MW-5	06/02/09	6001.96	ND	37.95		5964.01			
MW-5	08/28/09	6001.96	ND	38.19		5963.77			
MW-5	11/04/09	6001.96	ND	38.32		5963.64			
MW-5	02/17/10	6001.96	ND	38.38		5963.58			
MW-5	05/24/10	6001.96	ND	38.35		5963.61			
MW-5	09/24/10	6001.96	ND	38.61		5963.35			
MW-5	11/02/10	6001.96	ND	38.66		5963.30			
MW-5	02/07/11	6001.96	ND	38.74		5963.22			
MW-5	05/02/11	6001.96	ND	38.81		5963.15			
MW-5	09/23/11	6001.96	ND	38.99		5962.97			
MW-5	11/01/11	6001.96	ND	39.09		5962.87			
MW-5	02/21/12	6001.96	ND	39.09		5962.87			
MW-5	05/14/12	6001.96	ND	39.16		5962.80			
MW-5	06/09/13	6001.96	ND	39.38		5962.58			
MW-5	09/09/13	6001.96	ND	39.56		5962.40			
MW-5	12/12/13	6001.96	ND	39.55		5962.41			
MW-5	04/02/14	6001.96	ND	39.52		5962.44			
MW-5	10/23/14	6001.96	ND	39.71		5962.25			
MW-5	05/30/15	6001.96	ND	39.73		5962.23			
MW-5	11/19/15	6001.96	ND	39.33		5962.63			
MW-5	04/16/16	6001.96	ND	39.19		5962.77			
MW-5	10/13/16	6001.96	ND	39.34		5962.62			
MW-5	06/09/17	6001.96	ND	39.27		5962.69			
MW-5	11/12/17	6001.96	ND	39.52		5962.44			
MW-5	05/16/18	6001.96	ND	39.50		5962.46			
MW-5	10/26/18	6001.96	ND	39.79		5962.17			
MW-5	05/22/19	6001.96	ND	39.83		5962.13			
MW-5	11/12/19	6001.96	ND	39.97		5961.99			
MW-5	05/17/20	6001.96	ND	40.02		5961.94			

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	11/13/20	6001.96	ND ` /	40.18	, ,	5961.78
MW-5	05/18/21	6001.96	ND	40.25		5961.71
MW-5	08/26/21	6001.96	ND	40.30		5961.66
MW-5	11/15/21	6001.96	ND	40.33		5961.63
MW-6	12/07/06	6001.33	ND	39.62		5961.71
MW-6	03/28/07	6001.33	ND	39.43		5961.90
MW-6	06/18/07	6001.33	ND	39.43		5961.90
MW-6	09/17/07	6001.33	ND	39.43		5961.90
MW-6	12/17/07	6001.33	ND	38.65		5962.68
MW-6	03/10/08	6001.33	ND	39.21		5962.12
MW-6	03/05/09	6001.33	ND	37.61		5963.72
MW-6	06/02/09	6001.33	ND	37.46		5963.87
MW-6	08/28/09	6001.33	ND	37.89		5963.44
MW-6	11/04/09	6001.33	ND	38.03		5963.30
MW-6	05/24/10	6001.33	ND	38.07		5963.26
MW-6	09/24/10	6001.33	ND	38.30		5963.03
MW-6	11/02/10	6001.33	ND	38.36		5962.97
MW-6	02/07/11	6001.33	ND	38.39		5962.94
MW-6	05/02/11	6001.33	ND	36.42		5964.91
MW-6	09/23/11	6001.33	ND	38.65		5962.68
MW-6	11/01/11	6001.33	ND	38.70		5962.63
MW-6	02/21/12	6001.33	ND	38.75		5962.58
MW-6	05/14/12	6001.33	ND	38.79		5962.54
MW-6	06/09/13	6001.33	ND	39.08		5962.25
MW-6	09/09/13	6001.33	ND	39.28		5962.05
MW-6	12/12/13	6001.33	ND	39.26		5962.07
MW-6	10/23/14	6001.33	ND	39.43		5961.90
MW-6	04/02/14	6001.33	ND	39.24		5962.09
MW-6	05/30/15	6001.33	ND	39.45		5961.88
MW-6	11/19/15	6001.33	ND	39.02		5962.31
MW-6	04/16/16	6001.33	ND	38.92		5962.41
MW-6	10/13/16	6001.33	ND	39.00		5962.33
MW-6	06/09/17	6001.33	ND	39.16		5962.17
MW-6	11/12/17	6001.33	ND	39.23		5962.10
MW-6	05/16/18	6001.33	ND	39.26		5962.07
MW-6	10/26/18	6001.33	ND	39.53		5961.80
MW-6	05/22/19	6001.33	ND	39.58		5961.75
MW-6	11/12/19	6001.33	ND	39.73		5961.60

			Johnsto	on Fed #6A		
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	05/17/20	6001.33	ND ND	39.78		5961.55
MW-6	11/13/20	6001.33	ND	39.96		5961.37
MW-6	05/18/21	6001.33	ND	40.04		5961.29
MW-6	08/26/21	6001.33	ND	40.10		5961.23
MW-6	11/15/21	6001.33	ND	40.14		5961.19
MW-7	11/19/15	6001.26	ND	37.80		5963.46
MW-7	04/16/16	6001.26	ND	37.63		5963.63
MW-7	10/13/16	6001.26	ND	37.83		5963.43
MW-7	06/09/17	6001.26	ND	37.69		5963.57
MW-7	11/12/17	6001.26	ND	37.90		5963.36
MW-7	05/16/18	6001.26	ND	37.88		5963.38
MW-7	10/26/18	6001.26	ND	38.07		5963.19
MW-7	05/22/19	6001.26	ND	38.08		5963.18
MW-7	11/12/19	6001.26	ND	38.17		5963.09
MW-7	05/17/20	6001.26	ND	38.22		5963.04
MW-7	11/13/20	6001.26	ND	38.29		5962.97
MW-7	05/18/21	6001.26	ND	38.34		5962.92
MW-7	08/26/21	6001.26	ND	38.40		5962.86
MW-7	11/15/21	6001.26	ND	38.42		5962.84
MW-8	11/19/15	6001.06	ND	37.71		5963.35
MW-8	04/16/16	6001.06	ND	37.55		5963.51
MW-8	10/13/16	6001.06	ND	37.81		5963.25
MW-8	06/09/17	6001.06	ND	37.63		5963.43
MW-8	11/12/17	6001.06	ND	37.89		5963.17
MW-8	05/16/18	6001.06	ND	37.88		5963.18
MW-8	10/26/18	6001.06	ND	38.11		5962.95
MW-8	05/22/19	6001.06	ND	38.13		5962.93
MW-8	11/12/19	6001.06	ND	38.25		5962.81
MW-8	05/17/20	6001.06	ND	38.29		5962.77
MW-8	11/13/20	6001.06	ND	38.41		5962.65
MW-8	05/18/21	6001.06	ND	38.49		5962.57
MW-8	08/26/21	6001.06	ND	38.56		5962.50
MW-8	11/15/21	6001.06	ND	38.56		5962.50
MANA/ O	11/10/15	6004.00	ND	20.25		5000.04
MW-9	11/19/15	6001.39	ND	38.35		5963.04
MW-9	04/16/16	6001.39	ND	38.20		5963.19
MW-9	10/13/16	6001.39	ND	38.46		5962.93

	Johnston Fed #6A									
Location	Date	тос	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)				
MW-9	06/09/17	6001.39	ND	38.29	Timelanese (rai)	5963.10				
MW-9	11/12/17	6001.39	ND	38.54		5962.85				
MW-9	05/16/18	6001.39	ND	38.50		5962.89				
MW-9	10/26/18	6001.39	ND	38.77		5962.62				
MW-9	05/22/19	6001.39	ND	38.81		5962.58				
MW-9	11/12/19	6001.39	ND	38.96		5962.43				
MW-9	05/17/20	6001.39	ND	38.97		5962.42				
MW-9	11/13/20	6001.39	ND	39.11		5962.28				
MW-9	05/18/21	6001.39	ND	39.16		5962.23				
MW-9	08/26/21	6001.39	ND	39.23		5962.16				
MW-9	11/15/21	6001.39	ND	39.24		5962.15				
MW-10	11/12/19	6001.39	ND	39.01		5962.38				
MW-10	05/17/20	6001.39	ND	39.04		5962.35				
MW-10	11/13/20	6001.39	ND	39.20		5962.19				
MW-10	05/18/21	6001.39	ND	39.29		5962.10				
MW-10	08/26/21	6001.39	ND	39.39		5962.00				
MW-10	11/15/21	6001.39	ND	39.42		5961.97				
MW-11	11/12/19	5999.84	ND	36.42		5963.42				
MW-11	05/17/20	5999.84	ND	36.41		5963.43				
MW-11	11/13/20	5999.84	ND	36.45		5963.39				
MW-11	05/18/21	5999.84	ND	36.49		5963.35				
MW-11	08/26/21	5999.84	ND	36.60		5963.24				
MW-11	11/15/21	5999.84	ND	36.57		5963.27				

Notes:

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)

[&]quot;ft" = feet

[&]quot;TOC" = Top of casing

[&]quot;LNAPL" = Light non-aqueous phase liquid

[&]quot;ND" = LNAPL not detected

[&]quot;NR" = LNAPL not recorded

FIGURES

FIGURE 1: SITE LOCATION

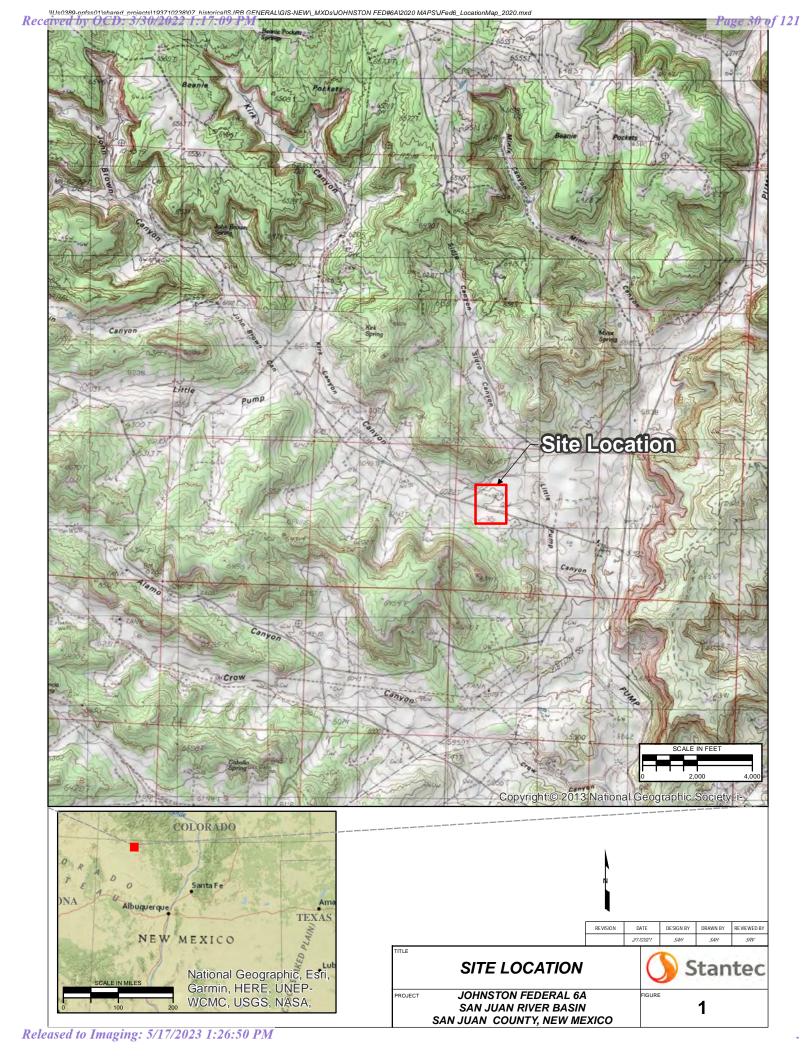
FIGURE 2: SITE PLAN

FIGURE 3: GROUNDWATER ANALYTICAL RESULTS MAY 18, 2021

FIGURE 4: GROUNDWATER ELEVATION MAP MAY 18, 2021

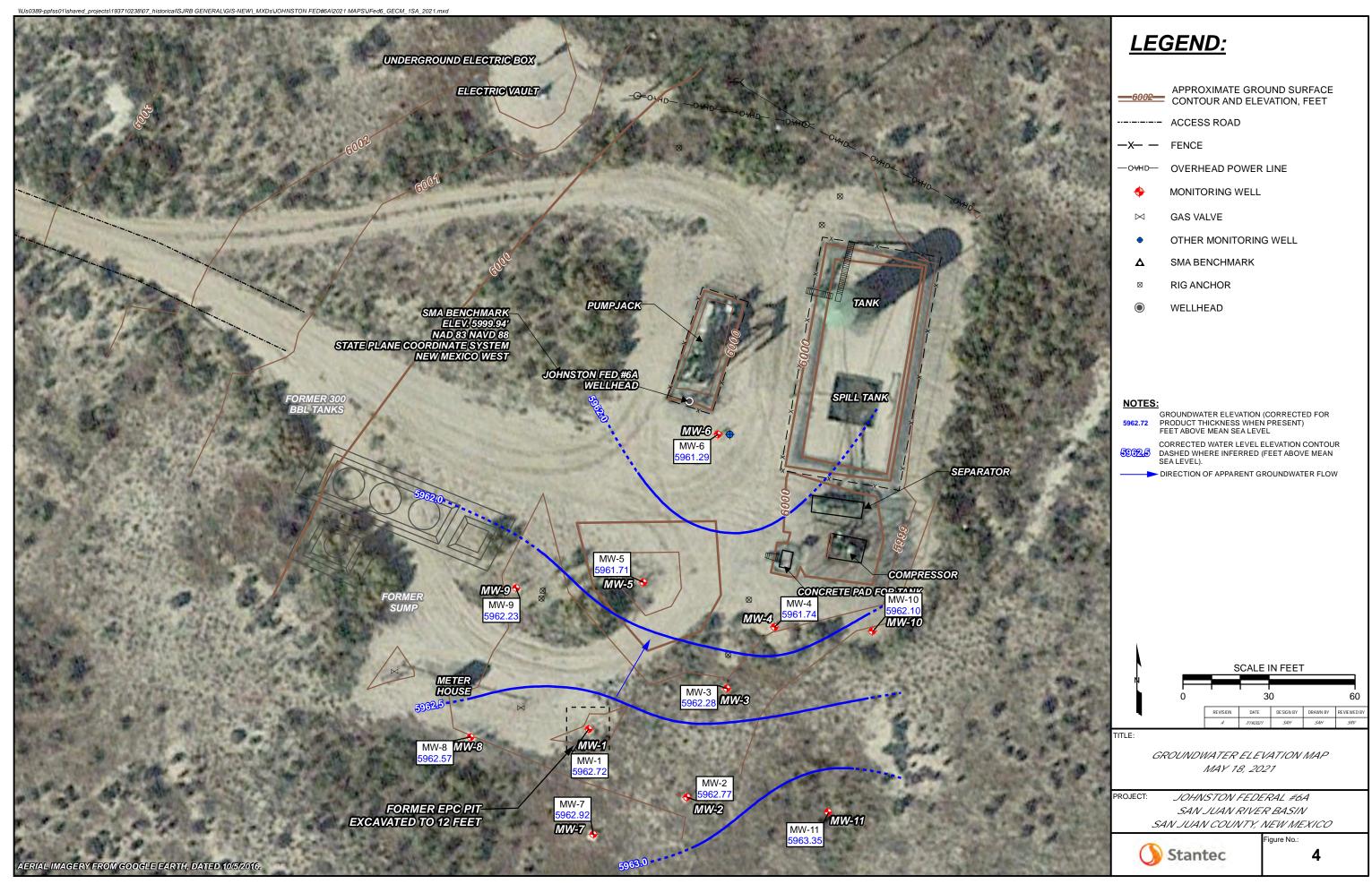
FIGURE 5: GROUNDWATER ANALYTICAL RESULTS NOVEMBER 15, 2021

FIGURE 6: GROUNDWATER ELEVATION MAP NOVEMBER 15, 2021

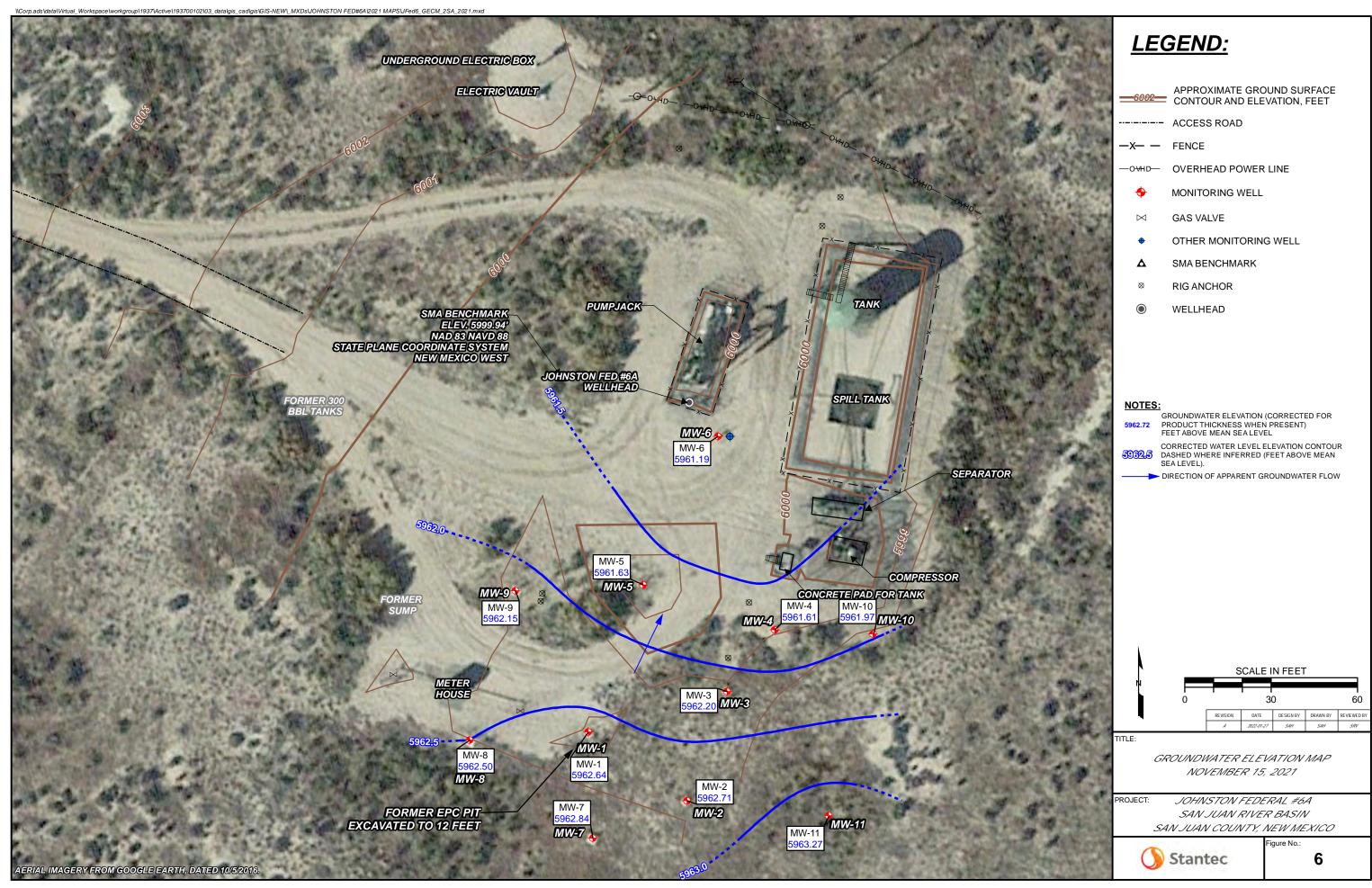












APPENDICES

APPENDIX A - NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B - WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX C - ACCUVAC REPORT ON MDPE EVENTS

APPENDIX D - GROUNDWATER SAMPLING ANALYTICAL REPORTS

APPENDIX A

Stanted

From: <u>Varsa, Steve</u>
To: <u>Smith, Cory, EMNRD</u>

Cc: <u>Griswold, Jim, EMNRD; Wiley, Joe</u>

Subject: El Paso CGP Company - Notice of upcoming product recovery activities

Date: Thursday, March 11, 2021 10:49:41 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming product recovery activities at the following El Paso CGP Company (EPCGP) project sites:

Site Name	Incident Number	Case Number	Date
Canada Mesa #2	Unknown	3RP-155-0	03/18/2021
Fields A#7A	Unknown	3RP-170-0	03/17/2021
Fogelson 4-1	Unknown	3RP-068-0	03/17/2021
Gallegos Canyon Unit #124E	NAUTOFAB000205	3RP-407-0	03/17/2021
James F. Bell #1E	Unknown	3RP-196-0	03/17/2021
Johnston Fed #4	Unknown	3RP-201-0	03/18/2021
Johnston Fed #6A	Unknown	3RP-202-0	03/18/2021
K27 LDO72	Unknown	3RP-204-0	03/18/2021
Knight #1	Unknown	3RP-207-0	03/17/2021
Lateral L 40 Line Drip	Unknown	3RP-212-0	03/18/2021
State Gas Com N #1	Unknown	3RP-239-0	03/17/2021

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.

Senior Hydrogeologist Stantec Environmental Services 11153 Aurora Avenue Des Moines, Iowa 50322 Direct: (515) 251-1020

Cell: (515) 710-7523 Office: (515) 253-0830 steve.varsa@stantec.com

From: <u>Varsa, Steve</u>
To: <u>Smith, Cory, EMNRD</u>

Cc: <u>Griswold, Jim, EMNRD; Wiley, Joe</u>

Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities

Date: Wednesday, May 12, 2021 2:45:52 PM

Hi Cory -

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	05/19/2021
Fields A#7A	nAUTOfAB000176	05/22/2021
Fogelson 4-1	nAUTOfAB000192	05/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	05/21/2021
GCU Com A #142E	nAUTOfAB000219	05/21/2021
James F. Bell #1E	nAUTOfAB000291	05/23/2021
Johnston Fed #4	nAUTOfAB000305	05/18/2021
Johnston Fed #6A	nAUTOfAB000309	05/18/2021
K27 LDO72	nAUTOfAB000316	05/19/2021
Knight #1	nAUTOfAB000324	05/21/2021
Lateral L 40 Line Drip	nAUTOfAB000335	05/23/2021
Miles Fed #1A	nAUTOfAB000391	05/19/2021
Sandoval GC A #1A	nAUTOfAB000635	05/18/2021
Standard Oil Com #1	nAUTOfAB000666	05/19/2021
State Gas Com N #1	nAUTOfAB000668	05/22/2021

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.

Senior Hydrogeologist Stantec Environmental Services 11153 Aurora Avenue Des Moines, Iowa 50322 Direct: (515) 251-1020 Cell: (515) 710-7523

Office: (515) 253-0830 <u>steve.varsa@stantec.com</u>

From: <u>Varsa, Steve</u>

To: "Smith, Cory, EMNRD"

Cc: <u>Griswold, Jim, EMNRD; "Wiley, Joe"</u>

Bcc: <u>Varsa, Steve</u>

Subject: Johnston Federal #6A site (nAUTOfAB000309) - notice of upcoming activities

Date: Monday, August 23, 2021 6:14:00 PM

Hi Cory – on behalf of El Paso CGP Company, Stantec is planning to complete hydrocarbon recovery activities using mobile dual-phase extraction methods at the subject site on August 26 and 31, 2021. A work plan will additional details regarding these activities has been submitted in the e-permitting portal.

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.

Senior Hydrogeologist Stantec Environmental Services **Note - we have moved!** 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:
 Smith, Cory, EMNRD

Cc: <u>Griswold, Jim, EMNRD; Wiley, Joe</u>

Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities

Date: Wednesday, November 03, 2021 10:14:55 AM

Hi Cory -

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	11/11/2021
Fields A#7A	nAUTOfAB000176	11/14/2021
Fogelson 4-1	nAUTOfAB000192	11/14/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/12/2021
GCU Com A #142E	nAUTOfAB000219	11/12/2021
James F. Bell #1E	nAUTOfAB000291	11/13/2021
Johnston Fed #4	nAUTOfAB000305	11/15/2021
Johnston Fed #6A	nAUTOfAB000309	11/15/2021
K27 LDO72	nAUTOfAB000316	11/11/2021
Knight #1	nAUTOfAB000324	11/12/2021
Lateral L 40 Line Drip	nAUTOfAB000335	11/13/2021
Miles Fed #1A	nAUTOfAB000391	11/11/2021
Sandoval GC A #1A	nAUTOfAB000635	11/15/2021
Standard Oil Com #1	nAUTOfAB000666	11/11/2021
State Gas Com N #1	nAUTOfAB000668	11/14/2021

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.

Senior Hydrogeologist Stantec Environmental Services 11153 Aurora Avenue Des Moines, Iowa 50322 Direct: (515) 251-1020 Cell: (515) 710-7523

Office: (515) 253-0830 steve.varsa@stantec.com

APPENDIX B

Stante

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BASIN 200 Montana, Bloomfield, NM 87413 505-632-8936 or 505-334-3013 OPEN 24 Hours per Day DATE GENERATOR: HAULING CO. (May Mineral Survey Mineral Surve									
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2		K-27 CDOTZ				- ('21 HAR	18 6:2	2pp
3		Johnston Fed 114							
_ 4		Thuston Fed #160							
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representative or authorized agent for

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AULING CO). S	Stantac		DRIV		un	Clary	
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NASTE DES	CRIPTION:	⊠Exempt Oilfield Waste	Produced Wat	ter Drill	ing/Completi	on Fluids		
STATE:	□NM □	CO AZ UT TREATMEN	NT/DISPOSAL I	METHODS:		TION MIN	ECTION TREA	ATING PLANT
NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Knight #1/ (acy thirt		720				
2		Gey Com A # 1426					'21 HAY	21 31210
3		Johnston Fed Dy/HLA						
4		Sundaval GC A DIA						
5	1	K-22 KONZ, Miles feel DIA			Colesson I			
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above descr	ibed waste is	:: RCRA Exempt: Oil field wastes generated from oil and gas	exploration and	production	operations and	d are not mix	ked with non -ex	empt waste.
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	CRIPTION:	Exchipt office tracts	ld, NM 87413 34-3013	DEL. BILL DRIVI CODE	TKT#. FO: Print Full I ES: (Print Full I	-001-0005 ent, Form C	Gp	ATING PLANT
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APPENDIX C

Stanted



September 13, 2021

Mr. Stephen Varsa Senior Hydrogeologist Stantec Consulting Services, Inc. 11153 Aurora Avenue Des Moines, IA 50322

Dear Steve:

Re: Johnston Federal No. 6A, San Juan County, NM (Well MW-1, Event #4)

At your request, AcuVac Remediation, LLC (AcuVac) performed Mobile Dual Phase Extraction (MDPE) events at the above referenced site (Site) as outlined in the table below. Following is the Report and a copy of the Operating Data collected during Event #4. Additionally, the attached Table #1 contains the Summary Well Data, and Table #2 contains the Summary Recovery Data.

Event Number	Well Number	Event Duration (hrs.)	Date
#4A	MW-1	8.0	08/26/2021
#4B	MW-1	8.0	08/31/2021

The purpose of the MDPE events was to enhance recovery of trace amounts of Phase Separated Hydrocarbons (PSH) that remain at the Site through the removal of petroleum hydrocarbons in both liquid and vapor phases. PSH is referred to as petroleum hydrocarbons and Light Non-Aqueous Phase Liquids (LNAPL). The source of the PSH is a historical release of natural gas condensate.

OBJECTIVES

The objectives of the MDPE events were to:

- Maximize liquid and vapor phase petroleum hydrocarbon removal from groundwater and soils in the subsurface formations within the influence of the extraction well.
- Expose the capillary fringe area and below to the extraction well induced vacuums.
- Increase the vapor phase and liquid LNAPL specific yields with high induced vacuums.
- Create an induced hydraulic gradient to gain hydraulic control of the area surrounding the extraction well during the event periods.
- Select and monitor the groundwater depression and pump rates to accomplish the above objectives.

METHODS AND EQUIPMENT

AcuVac owns and maintains an inventory of equipment to perform MDPE testing. No third-party equipment was utilized. The testing at the Site was conducted using the AcuVac I-6 System (System) with a Roots RAI-33 blower, used as a vacuum pump, and a Roots RAI-22 positive displacement blower. The following table lists equipment and instrumentation employed during the testing and the data element captured by each.

Equipment and Instrumentation Employed by AcuVac							
Measurement Equipment	Data Element						
Extraction Well Induced Vacuum and Flow							
Dwyer Magnehelic Gauges	Extraction Well Vacuum						
Dwyer Averaging Pitot Tubes / Magnehelic Gauges	Extractions Well Vapor Flow						
Observation Wells							
Dwyer Digital Manometer	Vacuum / Pressure Influence						
Extraction Well Vapor Monitoring							
V-1 Vacuum Box	Extraction Well Non-Diluted Vapor Sample Collection						
HORIBA® Analyzer	Extraction Well Vapor TPH Concentration						
RKI 1200 O ₂ , H ₂ S Monitor	Extraction Well Vapor Oxygen Content						
NAPL Thickness							
Solinst Interface Probe Model 122	Depth to NAPL and Depth to Groundwater						
Liquid Recovery							
Totalizer Flow Meter	Liquid Flow and Total Volume						
Grundfos Red-Flo 2 Total Fluids Pump	In-Well Pumping						
Grundfos Variable Frequency Drive	Pump Speed and Other Diagnostics						
Groundwater Depression / Upwelling							
In-Situ Level Troll 700 Data Logger	Liquid Column in Extraction and Observation Wells						
In-Situ Vented Cable with Chamber	Equalize Well Vacuum/Pressure						
In-Situ Rugged Reader Data Logger Interface	Capture Readings from Data Logger Trolls						
Atmospheric Conditions							
Testo Model 511	Relative and Absolute Barometric Pressure						

EXHAUST 2 CATALYTIC CONVERTERS VACUUM, VAPOR/AIR VAPOR/AIR AIR/MOISTURE FILTER ENGINE AUXILIARY FUFI FORCED AIR FLOW METER AIR AND INTERNAL COMBUSTION ENGINE VAPOR MOISTURE SEPARATOR SECONDARY INDUCED VACUUM GAUGE INDUCED VACUUM AND WELL VAPORS INDUCED VACUUM GAUGE MAGNEHELIC GAUGE VAPOR SAMPLE PORT GW AND PSH \odot GW VOLUME AND GPM METER MONITORING WELL LIQUID SAMPLE PORT EXTRACTION WELL LIQUID FREE PHASE GROUNDWATER (GW) PSH PUMP

THE ACUVAC MOBILE DUAL PHASE EXTRACTION SYSTEM

The vacuum extraction portion of the System consists of a vacuum pump driven by an internal combustion engine (IC engine). The vacuum pump connects to the extraction well, and the vacuum created on the extraction well causes light hydrocarbons in the soil and on the groundwater to volatilize and flow through a moisture knockout tank to the vacuum pump and the IC engine where they burn as part of the normal combustion process. Auxiliary propane powers the engine if the well vapors do not provide the required energy.

The IC engine provides the power necessary to achieve and maintain high induced vacuums and/or high well vapor flows needed to maximize the vacuum radius of influence.

Emissions from the engine pass through two of three catalytic converters to maximize destruction of effluent hydrocarbon vapors. The engine's fuel-to-air ratio is adjusted to maintain efficient combustion. Because the engine powers all equipment, the System stops when the engine stops preventing an uncontrolled release of hydrocarbons. Since the System operates entirely under vacuum, any leaks in the seals or connections leak into the System and not the atmosphere. Vacuum loss, low oil pressure, over-speed, or overheating automatically shut down the engine.

Groundwater extraction was provided by an in-well, Redi-Flo 2 total fluids pump that discharged through a total flow meter. The discharge line from the volume meter was then connected to the stand-by tank. A data logger (pressure transducer) was used to monitor the groundwater level relative to the in-well pump inlet. This enabled the AcuVac team to upwell the groundwater and then pump the well to achieve a targeted drawdown to maximize any LNAPL and vapor-phase hydrocarbons recovery from the smear zone. The electrical power for the groundwater pump was supplied from a 120v Honda generator. The groundwater flow rate was adjusted to maintain a target

level. An interface meter was used to collect depth to groundwater and depth to LNAPL measurements. Groundwater samples were taken periodically in a graduated cylinder to determine the average LNAPL percentage being recovered.

The design of the AcuVac System enables independent control of both the induced well vacuum and the groundwater pumping functions such that the AcuVac team controls the induced hydraulic gradient to increase exposure of the formation to soil vapor extraction (SVE). The ability to separate the vapor and liquid flows within the extraction well improve the LNAPL recovery rates and enabled the AcuVac team to record data specific to each media.

SUMMARY OF MDPE EVENT #4- WELL MW-1

The Petroleum Hydrocarbon Recovery Summary table below lists the groundwater and LNAPL recovery data for Event #4 and compares the results to the previous Events #3 and #2.

Petroleum Hydrocarbon Recovery Summary Well MW-1								
				Total				
Event Number	Event #4B	Event #4A	Event #4	Event #3	Event #2			
Event Date	08/31/2021	08/26/21	08/31/2021	09/25/2017	07/17/2017			
Event Hours	8.0	8.0	16.0	24.0	28.25			
Recovery								
GW Recovery	159	150	309	590	336			
NAPL Recovery								
Liquid	0	0	0	0	0			
Vapor	4.99	5.28	10.27	20.20	42.3			
Total	4.99	5.28	10.27	20.20	42.3			
Gallons/Hour	0.62	0.66	0.64	0.84	1.50			

 Total vapor hydrocarbons burned as IC engine fuel in the Petroleum Hydrocarbon Recovery Summary table above are based on the HORIBA® data recorded in the Influent Vapor Data table below, the HORIBA® analytical data from the influent vapor samples are compared with previous events.

Influent Vapor Data Well MW-1								
Event Number		Event #4B	Event #4A	Event #3C	Event #2C			
Event Date		08/31/2021	08/26/21	09/25/2017	07/17/2017			
Event Hours		8.0	8.0	10.0	10.0			
Data Element								
TPH- Maximum	ppmv	8,410	9,730	12,300	22,370			
TPH- Average	ppmv	7,556	8,243	9,662	20,210			
TPH- Minimum	ppmv	6,310	6,530	6,120	17,940			
TPH- Initial	ppmv	6,310	7,340	8,760	17,940			
TPH- Final	ppmv	6,670	6,530	11,710	22,370			
CO ₂	%	4.58	4.74	5.12	4.86			
O ₂	%	14.9	14.6	15.0	11.1			
H ₂ S	ppm	0	4	0	0			

• The extraction well induced vacuum and well vapor flow for Events #4A and #4B are compared with Event #3C and #2C in the following table.

Well Vacuum and Well Vapor Flow Well MW-1										
Event Number		Event #4B	Event #4A	Event #3C	Event #2C					
Event Date		08/31/2021	08/26/21	09/25/2017	07/17/2017					
Event Hours		8.0	8.0	10.0	10.0					
Data Element										
Well Vacuum- Max	InH ₂ O	42.00	45.00	64.00	35.00					
Well Vacuum- Avg	InH ₂ O	40.35	41.06	59.87	35.00					
Well Vacuum- Min	InH ₂ O	30.00	30.06	30.00	35.00					
Well Vapor Flow- Max	scfm	39.47	39.54	46.02	24.90					
Well Vapor Flow- Avg	scfm	37.18	37.06	41.07	24.90					
Well Vapor Flow- Min	scfm	33.39	26.54	21.66	24.90					

• For Events #4A and #4B, pneumatic pumps were used to provide a more constant groundwater depression and allow a more steady well vapor flow. For Event #4A, a top fill pump was used, and the inlet was positioned approximately 36 inches above the well bottom. For Event #4B, a bottom fill pump was employed, and the inlet was positioned approximately 6.0 inches above the well bottom. The groundwater pump rates for Events #4A and #4B are compared with Events #3C and #2C in the following table.

Groundwater Pump Data Well MW-1											
Event Number Event #4B Event #4A Event #3C Event #2C											
Event Date		08/31/2021	08/26/21	09/25/2017	07/17/2017						
Event Hours		8.0	8.0	10.0	10.0						
Data Element											
Maximum GW Pump Rate	gpm	0.50	0.60	0.81	0.14						
Average GW Pump Rate	gpm	0.33	0.31	0.43	0.14						

• The average groundwater depression and available well screen for Events #4A and #4B are compared with Events #3C and #2C in the following table.

Groundwater Depression and Available Well Screen Well MW-1											
Event Number		Event #4B	Event #4A	Event #3C	Event #2C						
Event Date		08/31/2021	08/26/21	09/25/2017	07/17/2017						
Event Hours		8.0	8.0	10.0	10.0						
Data Element											
Average GW Depression	ft	5.60	6.10	7.50	6.00						
Average Available Well Screen	ft	12.98	13.33	14.74	12.91						

• The LNAPL thickness recorded at the start and conclusion of each event is contained in the following table.

LNAPL Thickness Data Well MW-1											
Event Number		Event #4B	Event #4A	Event #3C	Event #2C						
Event Date		08/31/2021	08/26/21	09/25/2017	07/17/2017						
Event Hours		8.0	8.0	10.0	10.0						
Event Start											
Depth to LNAPL	Ft BTOC	-	-	39.24	-						
Depth to Groundwater	Ft BTOC	39.28	39.23	39.25	38.91						
LNAPL Thickness	ft	-	-	0.01	-						
Hydro Equivalent	Ft BTOC	38.28	39.23	39.24	38.91						
Event Conclusion											
Depth to LNAPL	Ft BTOC	46.66	-	47.45	-						
Depth to Groundwater	Ft BTOC	46.67	46.67	47.49	38.61						
LNAPL Thickness	ft	0.01	-	0.04	-						
Hydro Equivalent	Ft BTOC	46.66	47.67	47.46	38.61						

 Outer wells MW-8 (41.6 ft), MW-2 (41.7 ft) and MW-3 (51.1 ft) were monitored for vacuum influence from the extraction well MW-1. The LNAPL thickness recorded at the start and conclusion of each event is contained in the following table.

Outer Well Vacuum Influence Well MW-1								
Event Number		Event #4B	Event #4A					
Event Date		08/31/2021	08/26/21					
Event Hours		8.0	8.0					
Extraction Well								
Average Extraction Well Vacuum	InH ₂ O	40.35	41.06					
Average Vacuum Influence- Outer Wells								
MW-8 (41.6 ft)	InH ₂ O	0.26	0.26					
MW-2 (41.7 ft)	InH ₂ O	0.27	0.25					
MW-3 (51.1 ft)	InH₂O	(0.11)	0.19					

All wells were gauged prior to and after the conclusion of Event #4A and Event #4B to
determine the hydraulic influence of the extraction well groundwater pumping on the outer
wells. The gauging data contained in the following Gauging Data tables.

Gauging Data Event #4A Outer Observation Wells									
Well Number		MW-8	MW-2	MW-3					
Event Date		08/26/21	08/26/21	08/26/21					
Distance from Extraction Wel	ı ft	41.6	41.7	51.1					
Event Start									
Depth to LNAPL	Ft BTOC	Ī	-	-					
Depth to Groundwater	Ft BTOC	38.56	39.12	39.01					
LNAPL Thickness	ft	-	-	-					
Hydro Equivalent	Ft BTOC	38.56	39.12	39.01					
Event Conclusion									
Depth to LNAPL	Ft BTOC	-	-	-					
Depth to Groundwater	Ft BTOC	38.57	39.13	38.99					
LNAPL Thickness	ft	-	-	-					
Hydro Equivalent	Ft BTOC	38.57	39.13	38.99					

Gauging Data Event #4B Outer Observation Wells										
Well Number		MW-8	MW-2	MW-3						
Event Date		08/31/21	08/31/21	08/31/21						
Distance from Extraction Well	ft	41.6	41.7	51.1						
Event Start										
Depth to LNAPL	Ft BTOC	-	-	-						
Depth to Groundwater	Ft BTOC	38.58	39.15	39.05						
LNAPL Thickness	ft	-	-	-						
Hydro Equivalent	Ft BTOC	38.58	39.15	38.05						
Event Conclusion										
Depth to LNAPL	Ft BTOC	-	-	-						
Depth to Groundwater	Ft BTOC	38.58	39.30	38.98						
LNAPL Thickness	ft	-	-	-						
Hydro Equivalent	Ft BTOC	38.58	39.30	38.98						

ADDITIONAL INFORMATION

- Well MW-1 produced a steady amount of liquid volume during both Event #4A and #4B.
 However, no quantifiable liquid LNAPL was recovered from well MW-1.
- The equivalent recovered hydrocarbons for Event #4A- 5.28 and #4B- 4.99 gals, was burned as IC engine fuel.
- The TPH vapor concentrations increased during Event #4B and then decreased at the end of the event. The initial TPH reading was 6,310 ppmv (lowest), the average reading was 7,556 ppmv, the maximum reading, 8,410 ppmv, was at event hour 1.5, and the final reading, 6,670 ppmv, was recorded at event hour 7.5.

METHOD OF CALIBRATION AND CALCULATIONS

The HORIBA® Analytical instrument is calibrated with Hexane, CO and CO₂.

The formula used to calculate the emission rate is:

ER = HC (ppmv) x MW (Hexane) x Flow Rate (scfm) x $1.58E^{-7}$ (min)(lb mole) = lbs/hr (hr)(ppmv)(ft³)

INFORMATION INCLUDED WITH REPORT

- Table #1 Summary Well Data
- Table #2 Summary Recovery Data
- Recorded Data
- Photographs of the MDPE System, Well MW-1.

After you have reviewed the report and if you have any questions, please contact me. We appreciate you selecting AcuVac to provide this service.

Sincerely,

ACUVAC REMEDIATION, LLC

Paul D. Faucher

President

Summary Well Data Table #1

Event		4A	4B
WELL NO.		MW-1	MW-1
Total Event Hours		8.0	8.0
Cumulative Event Hours		67.0	75.0
TD	ft BGS	47.0	47.0
Well Screen	ft BGS	32.0 – 47.0	32.0 – 47.0
Well Size	in	4.0	4.0
Well Data			
DTGW - Static - Start Event	ft BTOC	=	-
DTLNAPL - Static - Start Event	ft BTOC	39.23	39.38
LNAPL	ft	=	-
Hydro-Equivalent- Beginning	ft BTOC	39.23	39.38
DTGW - End Event	ft BTOC	-	46.66
DTLNAPL - End Event	ft BTOC	46.67	46.67
LNAPL	ft	-	0.01
Hydro-Equivalent- Ending	ft BTOC	46.67	46.66
Extraction Data			
Maximum Extraction Well Vacuum	"H ₂ O	45.00	42.00
Average Extraction Well Vacuum	"H ₂ O	41.06	40.35
Minimum Extraction Well Vacuum	"H ₂ O	30.00	30.00
Maximum Extraction Well Vapor Flow	"H ₂ O	39.54	39.47
Average Extraction Well Vapor Flow	scfm	37.06	38.17
Minimum Extraction Well Vapor Flow	scfm	26.54	33.39
Maximum GW / LNAPL Pump Rate	gpm	0.60	0.50
Average GW / LNAPL Pump Rate	gpm	0.31	0.33
Influent Data			
Maximum TPH	ppmv	9,730	8,410
Average TPH	ppmv	8,243	7,556
Minimum TPH	ppmv	6,530	6,310
Initial TPH	ppmv	7,340	6,310
Final TPH	ppmv	6,530	6,670
Average CO ₂	%	4.74	4.58
Average O ₂	%	14.6	14.9
Average H₂S	ppm	4.0	0

Summary Recovery Data Table #2

Event		4A	4B
WELL NO.	MW-1	MW-1	
Recovery Data- Current Event			
Total Liquid Volume Recovered	gals	150	159
Total Liquid LNAPL Recovered	gals	-	-
Total Liquid LNAPL Recovered / Total Liquid	%	-	-
Total Liquid LNAPL Recovered / Total LNAPL	%	-	-
Total Vapor LNAPL Recovered	gals	5.28	4.99
Total Vapor LNAPL Recovered / Total LNAPL	%	100.00	100.00
Total Vapor and Liquid LNAPL Recovered	gals	5.28	4.99
Average LNAPL Recovery	gals/hr	0.66	0.62
Total LNAPL Recovered	lbs	37	35
Total Volume of Well Vapors	cu. ft	17,789	18,322
Recovery Data- Cumulative			
Total Liquid Volume Recovered	gals	1,244	1,403
Total Liquid LNAPL Recovered	gals	-	-
Total Vapor LNAPL Recovered	gals	71.76	76.74
Total Vapor and Liquid LNAPL Recovered	gals	71.76	76.74
Average LNAPL Recovery	gals/hr	1.07	1.02
Total LNAPL Recovered	lbs	502	537
Total Volume of Well Vapors	cu. ft	120,648	138,570



OPERATING DATA - EVENT # 4A PAGE # 1 **ACUVAC MDP SYSTEM** Location: Johnston Federal #6A, San Juan County, NM Project Managers: Faucher / Crump / George Date 8/24/21 Well# 0745 Time 0815 0845 0915 1015 0945 MW-1 2341.5 Hr Meter **Engine Speed** 1900 **RPM** 1900 1900 1700 1700 1700 ENGINE / BLOWER Oil Pressure 30 50 50 psi 50 50 50 Water Temp °F 160 160 165 165 160 160 Alternator 13 13 13 13 13 Volts 13 Intake Vacuum 10 10 "Hg 10 10 16 10 Gas Flow Fuel/Propane 95 125 125 90 cfh 90 85 Extraction Well Vac. 30 30 "H₂O 30 44 45 45 ATMOSPHERE VACUUM AIR **Extraction Well Flow** 26.59 scfm 26.54 28.20 37.47 38.24 39,00 Influent Vapor Temp. °F 60 62 64 66 66 68 Air Temp 64 66 °F 63 77 70 73 Barometric Pressure 30.25 30.35 30.35 30.35 30-34 "Hg 30.34 Absolute Pressure 24.31 24.31 24.31 24.31 24.31 24.31 "Hg **TPH** 7340 9730 6970 ppmv 8580 7860 VAPOR / CO₂ 6.16 5.92 5.88 4.30 4.70 02 129 11.4 13.0 15.3 144 H₂S 20.0 12.5 ppm 18.5 7.0 7.0 ARRIVED ON SITE AT 0710 HRS. POSITIONED ACUVE SYSTEM WELL WELL MW. 1. POSITIONED IN WELL PUEUMATIC PUMP INLET 31" ABOVE WELL BOTTOM. MEASURED DUSTANCES TO OBSERVATION WELLS. PLUGGED ALL OUTER WELLS OBSTAINED STATIC READINGS. EVENT

STARTED AT 0745 HAS INITIAL WELL VAK BOINHOO, WVF 26:59 SCFM. PUMP STARTED AT 0750 Hrs. 0915 NEW VAC 144 INHOO, WYF 1 37.47, 0945 WELL VACT 45 ENHOO WVF 39.53 SCFM. TPH CONCENTRATIONS VARIABLE DURING PETGOD

	Totalizer	gals	45838	45848	45850	45870	45880	45891
	Pump Rate	gals/min	: 33	.40	.33	,33	,37	.37
	Total Volume	gals	-	10	22	32	42	53
Ϋ́	NAPL	% Vol	_	_	-	-	_	-
RECOVERY	NAPL	Gals	-	-	-	-	-	-
2	Data Logger Head	8.45 ft	8.45	1.40	1.47	1.63	2.35	2.31
	GW(Depression)	ft	-	(7.05.)	(6.98)	(6.82)	46.107	46.08>
	Extraction Well	DTNAPL	-					
	Extraction Well	DTGW	39.23					



OPERATING DATA - EVENT # 4A PAGE # 2 **ACUVAC MDP SYSTEM** Location: Johnston Federal #6A, San Juan County, NM Project Managers: Faucher / Crump / George Date 826/21 Well# Time 1045 1215 1115 1145 1245 1315 mw-1 Hr Meter **Engine Speed** 1800 1800 RPM 1800 1800 1800 1800 ENGINE / BLOWER Oil Pressure 50 50 50 50 psi 50 50 Water Temp 160 °F 60 160 160 160 160 Alternator 13 13 43 13 Volts 13 13 00 Intake Vacuum 8 8 00 "Hg 8 Gas Flow Fuel/Propane 85 80 80 80 cfh 80 80 Extraction Well Vac 45 45 45 "H₂O 45 42 ATMOSPHERE VACUUM 42 Extraction Well Flow 39.00 39.41 scfm 39.34 39.34 39.54 39.54 Influent Vapor Temp. 68 68 70 °F 70 70 70 88 Air Temp 79 82 °F 84 88 90 Barometric Pressure 30.49 30.34 30.33 36.30 "Hg 30.79 3027 Absolute Pressure 24.25 24.31 24.30 2430 "Hg 24.27 24.21 **TPH** 9170 8950 9110 ppmv 8720 8640 0500 VAPOR / CO₂ 5.0 4.9 4.50 4.74 4.62 4.34 O_2 14.4 14.5 14.0 % 14.9 15.2 15.3 H₂S 0 0 0 ppm 0 0 0 WELL VAC STEADY UNTIL 1245 HRS & 42 IN HZD, WYF & 39.54 SCFM THE VAPOR CONCENTRATIONS ON A GLIGHTLY DECREASING TREND DORING THE PERIOD, LIQUID RECOVERY AT 1215 HRS. DL READING MOSTLY NOTES STEADY INDICATING THAT ALL LIQUID DRAWN FOTO WELL IS BEING VACATED Totalizer 45902 45925 45930 45911 45921 45948 gals Pump Rate 13 33 gals/min .30 .17 .60 30 Total Volume 64 92 73 83 87 gals 110 NAPL RECOVERY % Vol NAPL Gals 2.34 Data Logger Head ft 2.31 2-31 2-31 2.12 7.11 56.11.) 46.147 **GW** Depression 46.147 (6.14) 4634> (6.33) Extraction Well DTNAPL

DTGW

Extraction Well



OPERATING DATA - EVENT # 4/A

PAGE#

OPERATING DAT			DATA – EVE	NT # 7/7	PAGE	# 🐸	ACUVAC MDP SYSTEM	
Loc	ation: Johnston Federa	al #6A, San	Juan Cour	nty, NM	Project M	anagers: Fa	ucher / Crum	p / George
		Date	8/26/2	21				
We		Time	1345	1415	1445	1515	1545	
	MW-1	Hr Meter						
~	Engine Speed	RPM	1800	1800	1800	1800	1800	
ENGINE / BLOWER	Oil Pressure	psi	50	50	50	50	50	
/BLC	Water Temp	°F	170	170	170	170	176	
SINE	Alternator	Volts	13	13	13	13	13	
EN	Intake Vacuum	"Hg	8	8	8	8	8	
	Gas Flow Fuel/Propane	cfh	70	70	70	70	70	
×	Extraction Well Vac.	"H₂O	42	42	42	42	42	
ACUU	Extraction Well Flow	scfm	39.54	39.54	39.54	3954		
≅ N N	Influent Vapor Temp.	°F	70	70	70	70	70	
ATMOSPHERE VACUUM / AIR	Air Temp	°F	90	90	90	86	84	
	Barometric Pressure	"Hg	30.25	30.23	30,22	30.22	30.22	
	Absolute Pressure	"Hg	24.24	24.22	24.21	24.21	24.21	
VAPOR / INFLUENT	TPH	ppmv	8510	7790	7250	6530		
	CO ₂	%	4.16	4,22	3.86	376	_	
NFL	O ₂	%	15.3	15,8	15.9	164	_	
	H ₂ S	ppm	0	0	0	0	_	
NOIES							45838	
	Totalizer	gals	45951	45966	45973	45982	45988	
	Pump Rate	gals/min	.30	.23	,30	.20	-	
	Total Volume	gals	119	128	135	144	150	
	NAPL	% Vol	_	-	_	_	•	
	NAPL	Gals	-	_	-	-	/ ~	
	Data Logger Head	ft	2.16	2.10	2.06	2.15	.39	
	GW Depression	ft	46297	46357	(6.39)	46.30)	(8.06)	
	Extraction Well	DTNAPL						
	Extraction Well	DTGW						



OPERATING DATA - EVENT # 43 PAGE# / **ACUVAC MDP SYSTEM** Location: Johnston Federal #6A, San Juan County, NM Project Managers: Faucher / Crump / George Date 8/31/21 Well# 0300 Time 0730 0930 0830 0900 1000 Mw-Hr Meter 2359,5 **Engine Speed RPM** 1800 1800 1800 1800 1800 1800 ENGINE / BLOWER Oil Pressure psi 50 50 50 50 50 50 Water Temp 1.30 135 °F 135 145 150 140 Alternator 1.3 13 13 13 Volts 13 13 Intake Vacuum 12 12 12 12 "Hg 12 12 Gas Flow Fuel/Propane 130 126 130 130 130 130 cfh Extraction Well Vac. 30 36 36 ATMOSPHERE VACUUM / AIR "H₂O 40 40 42 **Extraction Well Flow** 33.39 33.77 36.31 scfm 37.66 38,08 33.79 Influent Vapor Temp. °F 62 66 6.6 68 68 68 Air Temp 61 °F 66 72 68 75 Barometric Pressure 3010 36,10 "Hg 30,11 30,10 30.10 30.10 Absolute Pressure 24.16 24.15 24.15 "Hg 24.15 24.16 24.16 TPH 6310 8410 ppmv 8100 VAPOR / CO₂ 5.38 % 5,10 5.02 02 % 14.0 13.5 14.3 H₂S ppm 0 0 ARRIVED ON SITE AT 0710 MOBILIZED ACTUAL SYSTEM AND EQUIPMENT GAUGED ALL WELLS. PERFORMED ALL SAFETY CHECKS. ALL OK. EVENT STARTED AT 0730. UTILIZING BOTTORY FU PNEUMATIC PUMP 0800 WELL VACT YO INFO NOTES WYF + 33.77 SCFM. 0930 NELL YAC 40 INHED, 38.68 SCFM. LIQUID RECONTRY MOSTLY STABLE, NO MEASURABLE LNAPL RECOVERED Totalizer 46072 46085 46057 46095 gals 46106 46117 Pump Rate gals/min ,43 50 33 37 37 30 Total Volume 15 gals 28 38 49 60 NAPL SHEON 5HEEN RECOVERY SHEEN % Vol SHEEN SHEEN SHEEN NAPL Gals Data Logger Head 7.71 1.45 170 2.60 2.09 2.08 GW(Depression) 52241 (6.26) (6.017 (5.71) (5.62) (5.63 **Extraction Well** DTNAPL Extraction Well DTGW



OPERATING DATA - EVENT # 43

PAGE # 7

ACUVAC MDP SYSTEM

	OPI	ERATING	DATA – EVEN	NT # 715	PAGE	# 4	ACUVAC	MDP SYSTE
Loca	ation: Johnston Federal	#6A, San	Juan Count	y, NM	Project M	anagers: Fa	ucher / Crur	np / George
Wel	1# mw-1	Date Time Hr Meter	1030	1100	1130	1200	1230	1300
	Engine Speed	RPM	1800	1800	1800	1800	1800	1800
WER	Oil Pressure	psi	50	50	50	50	50	50
BLO	Water Temp	°F	155	160	160	160	160	160
ENGINE / BLOWER	Alternator	Volts	13	13	13	13	13	13
ENG	Intake Vacuum	"Hg	12	12	12	12	12	
	Gas Flow Fuel/Propane	cfh	115	100	90	90	90	90
È	Extraction Well Vac.	"H₂O	42	42	42	42	42	42
חח	Extraction Well Flow	scfm	38.79	38,79		39.13	39.05	
ATMOSPHERE VACUUM / AIR	Influent Vapor Temp.	°F	68	68	70	70	72	72
	Air Temp	°F	79	81	81	84	84	88
	Barometric Pressure	"Hg	30.10	30.09	36.08	30.07	30.05	30.03
	Absolute Pressure	"Hg	24.15	24.15	24.14	24.13	44.11	24.10
VAPOR / INFLUENT	ТРН	ppmv	1	8110	-	8010	-	7550
	CO ₂	%	_	4.72	-	4.50	_	4.34
INFL	O ₂	%	_	14.8	-	15.3	-	15.6
	H₂S	ppm	-	0	-	0	-	-
NOTES	THY LAPOR CONCENTY OF VARON	TRATION	15 and 5	LIGHT D				
	Totalizer	gals	46126	46137	46145	46154	46163	46172
-	Pump Rate	gals/min	.37	. 27	.30	.36	.30	.30
. }	Total Volume	gals	69	80	88	97	106	115
-	NAPL	% Vol	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
-	NAPL	Gals	-		-	-	-	-
-	Data Logger Head	ft	2,10	2.07	2.02	207	201	2.07
-	GW Depression	ft	15.61>	(5.64)	15697	(5.64)	(554)	(5.64)
-		DTNAPL						
\perp	Extraction Well	DTGW						



OPERATING DATA - EVENT # 43

-	OPERATING DATA – EVENT # 73					E#5	ACUVAC MDP SYSTEM		
Loc	ation: Johnston Federa	al #6A, San	#6A, San Juan County, NM			lanagers: Fa	ucher / Crump / George		
We	11# Mw-1	Date Time Hr Meter	1330			1500	1536		
ENGINE / BLOWER	Engine Speed	RPM	1800	1800	1800	1800	1300		
	Oil Pressure	psi	50	50	30	50	50		
	Water Temp	°F	165	165	165	165	165		
	Alternator	Volts	13	13	13	13	13		
ENG	Intake Vacuum	"Hg	12	12	12	12	12		
	Gas Flow Fuel/Propane	cfh	85	80	80	80	80		
<u>\</u>	Extraction Well Vac.	"H₂O	42	42	42	42	42		
000	Extraction Well Flow	scfm	39,41		39.47	35.47	3947		
지	Influent Vapor Temp.	°F	72	72	72	72	72		
A	Air Temp	°F	98	88	90	90	90		
ATMOSPHERE VACUUM / AIR	Barometric Pressure	"Hg	30.02	30,00	29.99	29.98	29.97		
	Absolute Pressure	"Hg	24.00	24,07	24.06	24.06	24.05		
	TPH	ppmv	-	7290	_	6670	-		
VAPOR / INFLUENT	CO ₂	%	_	3.89	_	3.72	_		
	O ₂	%	-	15.7	_	16.1	_		
	H ₂ S	ppm	-	0	-	0	_		
							46057		
	Totalizer	gals	46181	46189	46198	46206	46216		
	Pump Rate	gals/min	.27	.30	.27	.33	-		
	Total Volume	gals	124	132	141	149	159		
	NAPL	% Vol	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN		
	NAPL	Gals	_	-	_	-	-		
	Data Logger Head	ft	2.16	2.06	2.11	7.10	.20		
	GW Depression	ft	(5.55)	(5.65)	(5.607	(5.61)	(7.51)		
	Extraction Well	DTNAPL							
\perp	Extraction Well	DTGW							

APPENDIX D

Stant

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-203727-1 Client Project/Site: Johnston Fed #6A

Stantec Consulting Services Inc 11153 Aurora Avenue Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Maxti Elwares

Authorized for release by: 5/31/2021 5:13:54 PM

Marty Edwards, Client Service Manager (850)471-6227

Marty.Edwards@Eurofinset.com

Have a Question?

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 400-203727-1

Client: Stantec Consulting Services Inc Project/Site: Johnston Fed #6A

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Definitions/Glossary

Client: Stantec Consulting Services Inc Project/Site: Johnston Fed #6A Job ID: 400-203727-1

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Eurofins TestAmerica, Pensacola

Case Narrative

Client: Stantec Consulting Services Inc Project/Site: Johnston Fed #6A Job ID: 400-203727-1

Job ID: 400-203727-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-203727-1

Comments

No additional comments.

Receipt

The samples were received on 5/21/2021 9:07 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 4.6° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-203727-3). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: MW-7 (400-203727-7). 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.

VOA Prep

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

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Client Sample ID: TB-01

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Lab Sample ID: 400-203727-1

Detection Summary

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-203727-2

No Detections.

Client Sample ID: MW-1 Lab Sample ID: 400-203727-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Benzene	6.3 J	10	3.8	ug/L	10	8260C	Total/NA
Toluene	430	10	4.1	ug/L	10	8260C	Total/NA
Ethylbenzene	230	10	5.0	ug/L	10	8260C	Total/NA
Xylenes, Total	1500	100	16	ug/L	10	8260C	Total/NA

Client Sample ID: MW-3 Lab Sample ID: 400-203727-4

No Detections.

Client Sample ID: MW-4 Lab Sample ID: 400-203727-5

No Detections.

Client Sample ID: MW-5 Lab Sample ID: 400-203727-6

No Detections.

Client Sample ID: MW-7 Lab Sample ID: 400-203727-7

No Detections.

Client Sample ID: MW-8 Lab Sample ID: 400-203727-8

No Detections.

Client Sample ID: MW-9 Lab Sample ID: 400-203727-9

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: Johnston Fed #6A

Job ID: 400-203727-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203727-1	TB-01	Water	05/18/21 07:00	05/21/21 09:07	
400-203727-2	DUP-01	Water	05/18/21 15:25	05/21/21 09:07	
400-203727-3	MW-1	Water	05/18/21 14:33	05/21/21 09:07	
400-203727-4	MW-3	Water	05/18/21 14:39	05/21/21 09:07	
400-203727-5	MW-4	Water	05/18/21 14:25	05/21/21 09:07	
100-203727-6	MW-5	Water	05/18/21 14:48	05/21/21 09:07	
400-203727-7	MW-7	Water	05/18/21 14:55	05/21/21 09:07	
100-203727-8	MW-8	Water	05/18/21 15:02	05/21/21 09:07	
100-203727-9	MW-9	Water	05/18/21 15:08	05/21/21 09:07	

Client Sample Results

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Lab Sample ID: 400-203727-1 **Client Sample ID: TB-01** Date Collected: 05/18/21 07:00

Matrix: Water

Date Received: 05/21/21 09:07

Method: 8260C - Volatile	Organic Compou	ınds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 16:26	1
Toluene	<1.0		1.0		ug/L			05/28/21 16:26	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 16:26	1
Xylenes, Total	<10		10		ug/L			05/28/21 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		78 - 118					05/28/21 16:26	1
Dibromofluoromethane	109		81 - 121					05/28/21 16:26	1
Toluene-d8 (Surr)	93		80 - 120					05/28/21 16:26	1

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Date Received: 05/21/21 09:07

Client Sample Results

Job ID: 400-203727-1 Client: Stantec Consulting Services Inc

Project/Site: Johnston Fed #6A

Client Sample ID: DUP-01 Lab Sample ID: 400-203727-2 Date Collected: 05/18/21 15:25

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Benzene <1.0 1.0 05/28/21 16:51 ug/L Toluene ug/L 05/28/21 16:51 <1.0 1.0 Ethylbenzene <1.0 1.0 ug/L 05/28/21 16:51 Xylenes, Total <10 10 ug/L 05/28/21 16:51 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 05/28/21 16:51 4-Bromofluorobenzene 80 78 - 118 Dibromofluoromethane 108 81 - 121 05/28/21 16:51 Toluene-d8 (Surr) 91 80 - 120 05/28/21 16:51

Client: Stantec Consulting Services Inc Job ID: 400-203727-1 Project/Site: Johnston Fed #6A

Client Sample ID: MW-1 Lab Sample ID: 400-203727-3

Date Collected: 05/18/21 14:33 **Matrix: Water** Date Received: 05/21/21 09:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.3	J	10	3.8	ug/L			05/28/21 20:59	10
Toluene	430		10	4.1	ug/L			05/28/21 20:59	10
Ethylbenzene	230		10	5.0	ug/L			05/28/21 20:59	10
Xylenes, Total	1500		100	16	ug/L			05/28/21 20:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		78 - 118					05/28/21 20:59	10
Dibromofluoromethane	109		81 - 121					05/28/21 20:59	10
Toluene-d8 (Surr)	88		80 - 120					05/28/21 20:59	10

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Lab Sample ID: 400-203727-4

Matrix: Water

Date Collected: 05/18/21 14:39 Date Received: 05/21/21 09:07

Client Sample ID: MW-3

Method: 8260C - Volatile	Organic Compounds	by GC/MS					
Analyte	Result Qualif	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			05/28/21 14:47	1
Toluene	<1.0	1.0	ug/L			05/28/21 14:47	1
Ethylbenzene	<1.0	1.0	ug/L			05/28/21 14:47	1
Xylenes, Total	<10	10	ug/L			05/28/21 14:47	1
Surrogate	%Recovery Quality	fier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89	78 - 118				05/28/21 14:47	1
Dibromofluoromethane	109	81 - 121				05/28/21 14:47	1
Toluene-d8 (Surr)	91	80 - 120				05/28/21 14:47	1

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Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Client Sample ID: MW-4 Lab Sample ID: 400-203727-5

. Matrix: Water

Date Collected: 05/18/21 14:25 Date Received: 05/21/21 09:07

Method: 8260C - Volatile	Organic Compounds by	GC/MS					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			05/28/21 17:16	1
Toluene	<1.0	1.0	ug/L			05/28/21 17:16	1
Ethylbenzene	<1.0	1.0	ug/L			05/28/21 17:16	1
Xylenes, Total	<10	10	ug/L			05/28/21 17:16	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102	78 - 118				05/28/21 17:16	1
Dibromofluoromethane	112	81 - 121				05/28/21 17:16	1
Toluene-d8 (Surr)	93	80 - 120				05/28/21 17:16	1

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Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Date Received: 05/21/21 09:07

Lab Sample ID: 400-203727-6

Client Sample ID: MW-5 Date Collected: 05/18/21 14:48

Matrix: Water

Method: 8260C - Volatile	Organic Compoun	ds by GC/MS							
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 17:40	1
Toluene	<1.0		1.0		ug/L			05/28/21 17:40	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 17:40	1
Xylenes, Total	<10		10		ug/L			05/28/21 17:40	1
Surrogate	%Recovery Q	ualifier Lin	nits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104	78	- 118			-		05/28/21 17:40	1
Dibromofluoromethane	113	81 .	- 121					05/28/21 17:40	1
Toluene-d8 (Surr)	92	80.	120					05/28/21 17:40	1

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Client Sample ID: MW-7 Lab Sample ID: 400-203727-7 Date Collected: 05/18/21 14:55

Matrix: Water

Date Received: 05/21/21 09:07

Method: 8260C - Volatile	Organic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 18:05	1
Toluene	<1.0		1.0		ug/L			05/28/21 18:05	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 18:05	1
Xylenes, Total	<10		10		ug/L			05/28/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	126	S1+	78 - 118					05/28/21 18:05	1
Dibromofluoromethane	110		81 - 121					05/28/21 18:05	1
Toluene-d8 (Surr)	91		80 - 120					05/28/21 18:05	1

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Client Sample ID: MW-8 Lab Sample ID: 400-203727-8 Date Collected: 05/18/21 15:02

Matrix: Water

Date Received: 05/21/21 09:07

Method: 8260C - Volatile	Organic Compou	inds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 18:30	1
Toluene	<1.0		1.0		ug/L			05/28/21 18:30	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 18:30	1
Xylenes, Total	<10		10		ug/L			05/28/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		78 - 118					05/28/21 18:30	1
Dibromofluoromethane	111		81 - 121					05/28/21 18:30	1
Toluene-d8 (Surr)	81		80 - 120					05/28/21 18:30	1

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Lab Sample ID: 400-203727-9

Matrix: Water

Date Collected: 05/18/21 15:08 Date Received: 05/21/21 09:07

Client Sample ID: MW-9

Method: 8260C - Volatile	Organic Compou	nds by G	C/MS						
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/28/21 18:55	1
Toluene	<1.0		1.0		ug/L			05/28/21 18:55	1
Ethylbenzene	<1.0		1.0		ug/L			05/28/21 18:55	1
Xylenes, Total	<10		10		ug/L			05/28/21 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		78 - 118					05/28/21 18:55	1
Dibromofluoromethane	109		81 - 121					05/28/21 18:55	1
Toluene-d8 (Surr)	89		80 - 120					05/28/21 18:55	1

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QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: Johnston Fed #6A

Job ID: 400-203727-1

GC/MS VOA

Analysis Batch: 533684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203727-1	TB-01	Total/NA	Water	8260C	
400-203727-2	DUP-01	Total/NA	Water	8260C	
400-203727-3	MW-1	Total/NA	Water	8260C	
400-203727-4	MW-3	Total/NA	Water	8260C	
400-203727-5	MW-4	Total/NA	Water	8260C	
400-203727-6	MW-5	Total/NA	Water	8260C	
400-203727-7	MW-7	Total/NA	Water	8260C	
400-203727-8	MW-8	Total/NA	Water	8260C	
400-203727-9	MW-9	Total/NA	Water	8260C	
MB 400-533684/4	Method Blank	Total/NA	Water	8260C	
LCS 400-533684/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203727-4 MS	MW-3	Total/NA	Water	8260C	
400-203727-4 MSD	MW-3	Total/NA	Water	8260C	

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Client: Stantec Consulting Services Inc

Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

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

Lab Sample ID: MB 400-533684/4

Matrix: Water

Analysis Batch: 533684

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

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Analyte Prepared Benzene < 0.38 1.0 0.38 ug/L 05/28/21 14:22 Toluene < 0.41 1.0 0.41 ug/L 05/28/21 14:22 Ethylbenzene < 0.50 05/28/21 14:22 1.0 0.50 ug/L Xylenes, Total 10 05/28/21 14:22 <1.6 1.6 ug/L

MB MB Qualifier Surrogate %Recovery Limits Prepared Dil Fac Analyzed 05/28/21 14:22 4-Bromofluorobenzene 101 78 - 118 109 81 - 121 Dibromofluoromethane 05/28/21 14:22 Toluene-d8 (Surr) 92 80 - 120 05/28/21 14:22

Lab Sample ID: LCS 400-533684/1002

Matrix: Water

Analysis Batch: 533684

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

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits 50.0 Benzene 50.6 ug/L 101 70 - 130 50.0 Toluene 47.4 ug/L 95 70 - 130 Ethylbenzene 50.0 47.2 94 70 - 130 ug/L 100 93.3 93 70 - 130 Xylenes, Total ug/L

LCS LCS %Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene 102 78 - 118 Dibromofluoromethane 108 81 - 121 Toluene-d8 (Surr) 80 - 120 94

Lab Sample ID: 400-203727-4 MS

Matrix: Water

Analysis Batch: 533684

Client Sample ID: MW-3 Prep Type: Total/NA

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier %Rec Analyte Unit D Limits Benzene <1.0 50.0 50.7 ug/L 101 56 - 142 ug/L Toluene <1.0 50.0 46.1 92 65 - 130Ethylbenzene <1.0 50.0 45.2 ug/L 89 58 - 131 Xylenes, Total <10 100 89.1 ug/L 59 - 130

MS MS %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene 107 78 - 118 Dibromofluoromethane 110 81 - 121 Toluene-d8 (Surr) 95 80 - 120

Lab Sample ID: 400-203727-4 MSD

Matrix: Water

Analysis Batch: 533684

Client Sample ID: MW-3 Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<1.0		50.0	49.9		ug/L		100	56 - 142	2	30
Toluene	<1.0		50.0	45.5		ug/L		91	65 - 130	1	30
Ethylbenzene	<1.0		50.0	42.5		ug/L		84	58 - 131	6	30

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QC Sample Results

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

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

Lab Sample ID: 400-203727-4 MSD **Matrix: Water**

Analysis Batch: 533684

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Xylenes, Total	<10		100	83.9		ug/L		84	59 - 130	6	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	87		78 - 118
Dibromofluoromethane	112		81 - 121
Toluene-d8 (Surr)	95		80 - 120

Client Sample ID: MW-3

Prep Type: Total/NA

Client Sample ID: TB-01

Lab Sample ID: 400-203727-1 Date Collected: 05/18/21 07:00 Date Received: 05/21/21 09:07

Matrix: Water

Matrix: Water

Dil Initial Batch Batch Batch Final Prepared Number Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA 8260C 533684 05/28/21 16:26 BEP TAL PEN Analysis 5 mL 5 mL Instrument ID: Brutus

Client Sample ID: DUP-01 Lab Sample ID: 400-203727-2

Date Collected: 05/18/21 15:25 **Matrix: Water**

Date Received: 05/21/21 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533684	05/28/21 16:51	BEP	TAL PEN
	Instrumer	nt ID: Brutus								

Client Sample ID: MW-1 Lab Sample ID: 400-203727-3

Date Collected: 05/18/21 14:33 Date Received: 05/21/21 09:07

Batch Batch Dil Initial Final Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Number Analyst Lab TAL PEN Total/NA Analysis 8260C 10 5 mL 5 mL 533684 05/28/21 20:59 BEP Instrument ID: Brutus

Client Sample ID: MW-3 Lab Sample ID: 400-203727-4 Date Collected: 05/18/21 14:39 **Matrix: Water**

Date Received: 05/21/21 09:07

Batch Batch Dil Initial Final **Batch Prepared** Method Amount Amount Number **Prep Type** Type Run **Factor** or Analyzed Analyst Lab Total/NA 533684 05/28/21 14:47 BEP Analysis 8260C 5 mL 5 mL TAL PEN Instrument ID: Brutus

Client Sample ID: MW-4 Lab Sample ID: 400-203727-5 Date Collected: 05/18/21 14:25

Date Received: 05/21/21 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533684	05/28/21 17:16	BEP	TAL PEN
	Instrumer	of ID: Brutus								

Client Sample ID: MW-5 Lab Sample ID: 400-203727-6 **Matrix: Water**

Date Collected: 05/18/21 14:48 Date Received: 05/21/21 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533684	05/28/21 17:40	BEP	TAL PEN

Eurofins TestAmerica, Pensacola

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Matrix: Water

Lab Chronicle

Client: Stantec Consulting Services Inc

Project/Site: Johnston Fed #6A

Lab Sample ID: 400-203727-7

Matrix: Water

Matrix: Water

Job ID: 400-203727-1

Date Collected: 05/18/21 14:55 Date Received: 05/21/21 09:07

Client Sample ID: MW-7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533684	05/28/21 18:05	BEP	TAL PEN
	Instrument	ID: Brutus								

Client Sample ID: MW-8 Lab Sample ID: 400-203727-8 **Matrix: Water**

Date Collected: 05/18/21 15:02 Date Received: 05/21/21 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533684	05/28/21 18:30	BEP	TAL PEN
	Instrumer	nt ID: Brutus								

Client Sample ID: MW-9 Lab Sample ID: 400-203727-9

Date Collected: 05/18/21 15:08

Date Received: 05/21/21 09:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	533684	05/28/21 18:55	BEP	TAL PEN
	Instrumen	t ID: Brutus								

Laboratory References:

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

Eurofins TestAmerica, Pensacola

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-203727-1

Project/Site: Johnston Fed #6A

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
lowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
New Jersey	NELAP	FL006	06-30-21
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-21
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-22
West Virginia DEP	State	136	06-30-21

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Method Summary

Client: Stantec Consulting Services Inc

Method Description

Purge and Trap

Volatile Organic Compounds by GC/MS

Project/Site: Johnston Fed #6A

Job ID: 400-203727-1

TAL PEN

Protocol	Laboratory
SW846	TAL PEN

SW846

Protocol References:

Method

8260C

5030C

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

Laboratory References:

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

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Chain of Custody Record

Eurorins TestAmerica, Pensacola

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

Client Information			Carrier Tracking No(s):
Client Contact:	111	Edwards, Marty P 400-203/2/ COC	
Steve Varsa	913-980-02	State of Origin	
Company: Stantec Consulting Services Inc	PWSID:		Page 1 of 1
Address:	Die Date Bennestad.	Analysis Requested	
11153 Aurora Avenue	במים במים במים במים במים במים במים במים		Preservation Codes:
City. Des Moines	TAT Requested (days):		
State, Zip. IA, 50322-7904	Compliance Project: A Vos. A Mo		e e
Phone:	2		E - NaHSO4 Q - Na2SO3
303-291-2239(Tel) Email: Steve.varsa@stantec.com	See Project Notes WO#:	(cMo)	r c Acid
Project Name: Johnston Fed #6A,00	Project #:		J - DI Water K - EDTA
Silve Johston Fed #64	SSOW#:	EX 859	
W-2RG-5TN-05-06-21-	Sample	Matrix	Der of
SAC-08		(W=water, S=solid,	imul/
Sample Identification	Sample Date Time G=grab)	O=waste/oll, O=BT=Tissue, A=Air)	
	X	Preservation Code:	Special Instructions/Note:
18-0	5/18/201/03/00 G	Water	
Nue-01	5/18/2021 1525 /	Water	2 Op Day C
mw-1	5/18/20 /422 (C)	Water	Doplicate
MW-3	1	Water	000
mw-4	100	Water	
mw -5	171	Water W	
t-MW	1250	Water	7
ON SW	15/10/10/10	Water	
5-3K	1500	V atem	
		×	~
Sice			
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
ested: I, II, III, IV, Other (specify)	Polson B Unknown Radiological		By Lab Archive For Months
Empty Kit Relinquished by:	Date:		
Relinquished by:	-	i ime:	Method of Shipment:
Relinquished by:	S/19/2011/0800	Company Received by FELEX	9/2011/08cm
Relinquished by:	Date/Time		Date/Time: Date/Time: On Company
Cietraly Spale Intrate: Cintradu Spal Ma.		Company Received by:	D. te/Timé: Company
- 1		Cooler Temperature(s) °C and Other Remarks:	4600 728

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-203727-1

Login Number: 203727 List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	4.6°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s 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	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-211300-1

Client Project/Site: Johnston Federal #6A

For:

Stantec Consulting Services Inc 11311 Aurora Avenue Des Moines, Iowa 50322-7904

Attn: Steve Varsa

ChayanaxWhitmin

Authorized for release by: 11/30/2021 12:59:01 PM

Cheyenne Whitmire, Project Manager II (850)471-6222

Cheyenne.Whitmire@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Laboratory Job ID: 400-211300-1

Client: Stantec Consulting Services Inc Project/Site: Johnston Federal #6A

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Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

RLReporting 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)

Too Numerous To Count **TNTC**

Case Narrative

Client: Stantec Consulting Services Inc Project/Site: Johnston Federal #6A Job ID: 400-211300-1

Job ID: 400-211300-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-211300-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2021 9:10 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 0.0° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-01 (400-211300-2) and MW-1 (400-211300-3). 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.

VOA Prep

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

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Client Sample ID: TB-01

Job ID: 400-211300-1

Client: Stantec Consulting Services Inc Project/Site: Johnston Federal #6A

Lab Sample ID: 400-211300-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-211300-2

Analyte	Result Qualifier	RL	Unit	Dil Fac	O Method	Prep Type
Toluene	1700	50	ug/L	50	8260C	Total/NA
Ethylbenzene	700	50	ug/L	50	8260C	Total/NA
Xylenes, Total	6000	500	ug/L	50	8260C	Total/NA

Client Sample ID: MW-1 Lab Sample ID: 400-211300-3

Analyte	Result Qualifier	RL	Unit	Dil Fac I) Method	Prep Type
Toluene	1600	50	ug/L	50	8260C	Total/NA
Ethylbenzene	700	50	ug/L	50	8260C	Total/NA
Xylenes, Total	5400	500	ug/L	50	8260C	Total/NA

Client Sample ID: MW-2 Lab Sample ID: 400-211300-4

No Detections.

Client Sample ID: MW-3 Lab Sample ID: 400-211300-5

No Detections.

Client Sample ID: MW-4 Lab Sample ID: 400-211300-6

No Detections.

Client Sample ID: MW-5 Lab Sample ID: 400-211300-7

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-211300-8

No Detections.

Client Sample ID: MW-7 Lab Sample ID: 400-211300-9

No Detections.

Client Sample ID: MW-8 Lab Sample ID: 400-211300-10

No Detections.

Client Sample ID: MW-9

Lab Sample ID: 400-211300-11

No Detections.

Client Sample ID: MW-10 Lab Sample ID: 400-211300-12

No Detections.

Client Sample ID: MW-11 Lab Sample ID: 400-211300-13

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: Johnston Federal #6A Job ID: 400-211300-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211300-1	TB-01	Water	11/15/21 11:00	11/16/21 09:10
400-211300-2	DUP-01	Water	11/15/21 12:48	11/16/21 09:10
400-211300-3	MW-1	Water	11/15/21 11:48	11/16/21 09:10
400-211300-4	MW-2	Water	11/15/21 11:53	11/16/21 09:10
400-211300-5	MW-3	Water	11/15/21 12:02	11/16/21 09:10
400-211300-6	MW-4	Water	11/15/21 12:04	11/16/21 09:10
400-211300-7	MW-5	Water	11/15/21 12:07	11/16/21 09:10
400-211300-8	MW-6	Water	11/15/21 12:10	11/16/21 09:10
400-211300-9	MW-7	Water	11/15/21 12:15	11/16/21 09:10
400-211300-10	MW-8	Water	11/15/21 12:20	11/16/21 09:10
400-211300-11	MW-9	Water	11/15/21 12:23	11/16/21 09:10
400-211300-12	MW-10	Water	11/15/21 12:27	11/16/21 09:10
400-211300-13	MW-11	Water	11/15/21 12:30	11/16/21 09:10

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Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Client Sample ID: TB-01 Lab Sample ID: 400-211300-1

Date Collected: 11/15/21 11:00 **Matrix: Water** Date Received: 11/16/21 09:10

Organic Compou	ınds by G	C/MS					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<1.0		1.0	ug/L			11/26/21 15:58	1
<1.0		1.0	ug/L			11/26/21 15:58	1
<1.0		1.0	ug/L			11/26/21 15:58	1
<10		10	ug/L			11/26/21 15:58	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
89		72 - 119				11/26/21 15:58	1
114		75 - 126				11/26/21 15:58	1
102		64 - 132				11/26/21 15:58	1
	Result <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <10	Result Qualifier	<1.0	Result Qualifier RL Unit <1.0	Result Qualifier RL Unit D <1.0	Result Qualifier RL Unit D Prepared <1.0	Result Qualifier RL Unit D Prepared Analyzed <1.0

Client: Stantec Consulting Services Inc Job ID: 400-211300-1

Project/Site: Johnston Federal #6A

Client Sample ID: DUP-01

Lab Sample ID: 400-211300-2

Matrix: Water

Date Collected: 11/15/21 12:48 Date Received: 11/16/21 09:10

Method: 8260C - Volatile	Organic Compounds	by GC/MS					
Analyte	Result Qual	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<50	50	ug/L			11/28/21 15:13	50
Toluene	1700	50	ug/L			11/28/21 15:13	50
Ethylbenzene	700	50	ug/L			11/28/21 15:13	50
Xylenes, Total	6000	500	ug/L			11/28/21 15:13	50
Surrogate	%Recovery Qual	lifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91	72 - 119				11/28/21 15:13	50
Dibromofluoromethane	103	75 - 126				11/28/21 15:13	50
Toluene-d8 (Surr)	78	64 - 132				11/28/21 15:13	50

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Client Sample ID: MW-1 Lab Sample ID: 400-211300-3

Date Collected: 11/15/21 11:48 **Matrix: Water**

Date Received: 11/16/21 09:10

Method: 8260C - Volatile	•	•						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<50		50	ug/L			11/28/21 15:39	50
Toluene	1600		50	ug/L			11/28/21 15:39	50
Ethylbenzene	700		50	ug/L			11/28/21 15:39	50
Xylenes, Total	5400		500	ug/L			11/28/21 15:39	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		72 - 119				11/28/21 15:39	50
Dibromofluoromethane	103		75 - 126				11/28/21 15:39	50
Toluene-d8 (Surr)	79		64 - 132				11/28/21 15:39	50

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Client Sample ID: MW-2

Lab Sample ID: 400-211300-4 Date Collected: 11/15/21 11:53 **Matrix: Water** Date Received: 11/16/21 09:10

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

Welliou. 02000 - Volai	the Organic Compounds by G	C/IVIS				
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L	<u> </u>	11/26/21 21:11	1
Toluene	<1.0	1.0	ug/L		11/26/21 21:11	1
Ethylbenzene	<1.0	1.0	ug/L		11/26/21 21:11	1
Xylenes, Total	<10	10	ug/L		11/26/21 21:11	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		72 - 119	_		11/26/21 21:11	1
Dibromofluoromethane	116		75 - 126			11/26/21 21:11	1
Toluene-d8 (Surr)	105		64 - 132			11/26/21 21:11	1

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Client Sample ID: MW-3 Lab Sample ID: 400-211300-5

Date Collected: 11/15/21 12:02 **Matrix: Water** Date Received: 11/16/21 09:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/26/21 21:38	1
Toluene	<1.0		1.0	ug/L			11/26/21 21:38	1
Ethylbenzene	<1.0		1.0	ug/L			11/26/21 21:38	1
Xylenes, Total	<10		10	ug/L			11/26/21 21:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		72 - 119				11/26/21 21:38	1
Dibromofluoromethane	111		75 - 126				11/26/21 21:38	1
Toluene-d8 (Surr)	109		64 - 132				11/26/21 21:38	1

Date Collected: 11/15/21 12:04

Date Received: 11/16/21 09:10

Client Sample Results

Client: Stantec Consulting Services Inc Job ID: 400-211300-1

Project/Site: Johnston Federal #6A Client Sample ID: MW-4

Lab Sample ID: 400-211300-6

Matrix: Water

Method: 8260C - Volatile	Organic Compou	ınds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 14:47	1
Toluene	<1.0		1.0	ug/L			11/28/21 14:47	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 14:47	1
Xylenes, Total	<10		10	ug/L			11/28/21 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		72 - 119				11/28/21 14:47	1
Dibromofluoromethane	105		75 - 126				11/28/21 14:47	1
Toluene-d8 (Surr)	83		64 - 132				11/28/21 14:47	1

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Lab Sample ID: 400-211300-7 **Client Sample ID: MW-5**

Date Collected: 11/15/21 12:07 **Matrix: Water** Date Received: 11/16/21 09:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 20:01	1
Toluene	<1.0		1.0	ug/L			11/28/21 20:01	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 20:01	1
Xylenes, Total	<10		10	ug/L			11/28/21 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		72 - 119				11/28/21 20:01	1
Dibromofluoromethane	105		75 - 126				11/28/21 20:01	1
Toluene-d8 (Surr)	79		64 - 132				11/28/21 20:01	1

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

Client Sample ID: MW-6 Lab Sample ID: 400-211300-8

Date Collected: 11/15/21 12:10 **Matrix: Water** Date Received: 11/16/21 09:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 20:27	1
Toluene	<1.0		1.0	ug/L			11/28/21 20:27	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 20:27	1
Xylenes, Total	<10		10	ug/L			11/28/21 20:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		72 - 119				11/28/21 20:27	1
Dibromofluoromethane	105		75 - 126				11/28/21 20:27	1
Toluene-d8 (Surr)	84		64 - 132				11/28/21 20:27	1

Client: Stantec Consulting Services Inc Job ID: 400-211300-1

Project/Site: Johnston Federal #6A

Lab Sample ID: 400-211300-9

Client Sample ID: MW-7 Date Collected: 11/15/21 12:15 Date Received: 11/16/21 09:10

Matrix:	Water
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Method: 8260C - Volatile	Organic Compou	ınds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 20:53	1
Toluene	<1.0		1.0	ug/L			11/28/21 20:53	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 20:53	1
Xylenes, Total	<10		10	ug/L			11/28/21 20:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		72 - 119				11/28/21 20:53	1
Dibromofluoromethane	106		75 - 126				11/28/21 20:53	1
Toluene-d8 (Surr)	80		64 - 132				11/28/21 20:53	1

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #6A

Job ID: 400-211300-1

Client Sample ID: MW-8

Lab Sample ID

Lab Sample ID: 400-211300-10 Matrix: Water

Date Collected: 11/15/21 12:20 Date Received: 11/16/21 09:10

Method: 8260C - Volatile	Organic Compoun	nds by GC	/MS					
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 21:19	1
Toluene	<1.0		1.0	ug/L			11/28/21 21:19	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 21:19	1
Xylenes, Total	<10		10	ug/L			11/28/21 21:19	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		72 - 119				11/28/21 21:19	1
Dibromofluoromethane	105		75 - 126				11/28/21 21:19	1
Toluene-d8 (Surr)	85		64 - 132				11/28/21 21:19	1

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Date Received: 11/16/21 09:10

Client Sample Results

Client: Stantec Consulting Services Inc Job ID: 400-211300-1

Project/Site: Johnston Federal #6A

Lab Sample ID: 400-211300-11

Client Sample ID: MW-9 Date Collected: 11/15/21 12:23

Matrix: Water

Method: 8260C - Volatile	Organic Compou	ınds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 21:45	1
Toluene	<1.0		1.0	ug/L			11/28/21 21:45	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 21:45	1
Xylenes, Total	<10		10	ug/L			11/28/21 21:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		72 - 119				11/28/21 21:45	1
Dibromofluoromethane	106		75 - 126				11/28/21 21:45	1
Toluene-d8 (Surr)	85		64 - 132				11/28/21 21:45	1

Client: Stantec Consulting Services Inc

Project/Site: Johnston Federal #6A

Job ID: 400-211300-1

Client Sample ID: MW-10 Lab Sample ID: 400-211300-12

Date Collected: 11/15/21 12:27

Date Received: 11/16/21 09:10

Matrix: Water

Method: 8260C - Volatile	Organic Compou	unds by G	C/MS					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/28/21 22:12	1
Toluene	<1.0		1.0	ug/L			11/28/21 22:12	1
Ethylbenzene	<1.0		1.0	ug/L			11/28/21 22:12	1
Xylenes, Total	<10		10	ug/L			11/28/21 22:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		72 - 119				11/28/21 22:12	1
Dibromofluoromethane	107		75 - 126				11/28/21 22:12	1
Toluene-d8 (Surr)	84		64 - 132				11/28/21 22:12	1

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Client: Stantec Consulting Services Inc Job ID: 400-211300-1

Project/Site: Johnston Federal #6A

Client Sample ID: MW-11 Lab Sample ID: 400-211300-13

Date Collected: 11/15/21 12:30 **Matrix: Water** Date Received: 11/16/21 09:10

Method: 8260C - Volatile	Organic Compounds by (GC/MS					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			11/28/21 22:38	1
Toluene	<1.0	1.0	ug/L			11/28/21 22:38	1
Ethylbenzene	<1.0	1.0	ug/L			11/28/21 22:38	1
Xylenes, Total	<10	10	ug/L			11/28/21 22:38	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93	72 - 119				11/28/21 22:38	1
Dibromofluoromethane	105	75 - 126				11/28/21 22:38	1
Toluene-d8 (Surr)	79	64 - 132				11/28/21 22:38	1

QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: Johnston Federal #6A Job ID: 400-211300-1

GC/MS VOA

Analysis Batch: 557357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211300-1	TB-01	Total/NA	Water	8260C	
400-211300-4	MW-2	Total/NA	Water	8260C	
400-211300-5	MW-3	Total/NA	Water	8260C	
MB 400-557357/4	Method Blank	Total/NA	Water	8260C	
LCS 400-557357/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211302-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-211302-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 557545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211300-2	DUP-01	Total/NA	Water	8260C	
400-211300-3	MW-1	Total/NA	Water	8260C	
400-211300-6	MW-4	Total/NA	Water	8260C	
400-211300-7	MW-5	Total/NA	Water	8260C	
400-211300-8	MW-6	Total/NA	Water	8260C	
400-211300-9	MW-7	Total/NA	Water	8260C	
400-211300-10	MW-8	Total/NA	Water	8260C	
400-211300-11	MW-9	Total/NA	Water	8260C	
400-211300-12	MW-10	Total/NA	Water	8260C	
400-211300-13	MW-11	Total/NA	Water	8260C	
MB 400-557545/4	Method Blank	Total/NA	Water	8260C	
LCS 400-557545/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211300-6 MS	MW-4	Total/NA	Water	8260C	
400-211300-6 MSD	MW-4	Total/NA	Water	8260C	

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Job ID: 400-211300-1

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

Lab Sample ID: MB 400-557357/4

Matrix: Water

Analysis Batch: 557357

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

Client Sample ID: Lab Control Sample

MB MB Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Benzene <1.0 1.0 ug/L 11/26/21 13:22 Toluene <1.0 1.0 ug/L 11/26/21 13:22 Ethylbenzene ug/L 11/26/21 13:22 <1.0 1.0 1 Xylenes, Total <10 10 ug/L 11/26/21 13:22

MB MB Qualifier Surrogate Limits Prepared Dil Fac %Recovery Analyzed 11/26/21 13:22 4-Bromofluorobenzene 89 72 - 119102 75 - 126 Dibromofluoromethane 11/26/21 13:22 105 Toluene-d8 (Surr) 64 - 132 11/26/21 13:22

Lab Sample ID: LCS 400-557357/1002

Matrix: Water

Prep Type: Total/NA **Analysis Batch: 557357** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

50.0 Benzene 44.2 ug/L 88 70 - 130 50.0 Toluene 51.0 ug/L 102 70 - 130 Ethylbenzene 50.0 54.2 70 - 130 ug/L 108 100 110 ug/L 110 70 - 130 Xylenes, Total

LCS LCS %Recovery Surrogate Qualifier Limits 72 - 119 4-Bromofluorobenzene 89 106 Dibromofluoromethane 75 - 126 Toluene-d8 (Surr) 106 64 - 132

Sample Sample

Lab Sample ID: 400-211302-A-2 MS

Matrix: Water

Analysis Batch: 557357

Client Sample ID: Matrix Spike Prep Type: Total/NA

Sample	Sample	Spike	IVIO	IVIO				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.3		50.0	58.0		ug/L		113	56 - 142	
<1.0		50.0	63.2		ug/L		126	65 - 130	
<1.0	F1	50.0	65.8	F1	ug/L		132	58 - 131	
<10	F1	100	134	F1	ug/L		134	59 - 130	
	1.3 <1.0 <1.0	Result Qualifier 1.3	Result Qualifier Added 1.3 50.0 <1.0	Result Qualifier Added Result 1.3 50.0 58.0 <1.0	Result Qualifier Added Result Qualifier 1.3 50.0 58.0 <1.0	Result Qualifier Added Result Qualifier Unit 1.3 50.0 58.0 ug/L <1.0	Result Qualifier Added Result Qualifier Unit D 1.3 50.0 58.0 ug/L ug/L <1.0	Result Qualifier Added Result Qualifier Unit D %Rec 1.3 50.0 58.0 ug/L 113 <1.0	Result Qualifier Added Result Qualifier Unit D %Rec Limits 1.3 50.0 58.0 ug/L 113 56 - 142 <1.0

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	MS I	VIS	
Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene	90		72 - 119
Dibromofluoromethane	107		75 - 126
Toluene-d8 (Surr)	103		64 - 132

Lab Sample ID: 400-211302-A-2 MSD

Matrix: Water

Analyte

Benzene

Toluene

Ethylbenzene

Analysis Batch: 557357

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

0/ Bac

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Unit %Rec Limit 1.3 50.0 53.8 ug/L 105 56 - 142 8 30 ug/L <1.0 50.0 65 - 130 30 593 119 6 <1.0 F1 50.0 59.7 ug/L 119 58 - 131 10 30

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Job ID: 400-211300-1

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

Lab Sample ID: 400-211302-A-2 MSD

Matrix: Water

Analysis Batch: 557357

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD Spike MSD MSD %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Xylenes, Total <10 F1 100 123 ug/L 123 59 - 130 8 30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	91		72 - 119
Dibromofluoromethane	108		75 - 126
Toluene-d8 (Surr)	96		64 - 132

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 557545

Lab Sample ID: MB 400-557545/4

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <1.0 1.0 ug/L 11/28/21 14:20 Toluene <1.0 1.0 ug/L 11/28/21 14:20 Ethylbenzene 1.0 ug/L 11/28/21 14:20 <1.0 10 Xylenes, Total <10 ug/L 11/28/21 14:20

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 92 72 - 119 11/28/21 14:20 Dibromofluoromethane 103 75 - 126 11/28/21 14:20 Toluene-d8 (Surr) 85 64 - 132 11/28/21 14:20

Lab Sample ID: LCS 400-557545/1002

Matrix: Water

Analysis Batch: 557545

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

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 50.0 52.1 ug/L 104 70 - 130 50.0 70 - 130 Toluene 44.8 ug/L 90 Ethylbenzene 50.0 49.1 ug/L 98 70 - 130 100 100 Xylenes, Total ug/L 100 70 - 130

LCS LCS	
%Recovery Qualifier	Limits
96	72 - 119
107	75 - 126
82	64 - 132
	%Recovery Qualifier 96 107

Lab Sample ID: 400-211300-6 MS

Matrix: Water

Analysis Batch: 557545

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	51.1		ug/L		101	56 - 142	
Toluene	<1.0		50.0	40.3		ug/L		81	65 - 130	
Ethylbenzene	<1.0		50.0	41.2		ug/L		82	58 - 131	
Xylenes, Total	<10		100	85.4		ug/L		85	59 - 130	

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Client Sample ID: MW-4

Prep Type: Total/NA

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QC Sample Results

Client: Stantec Consulting Services Inc Job ID: 400-211300-1 Project/Site: Johnston Federal #6A

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

Matrix: Water

Analysis Batch: 557545

Lab Sample ID: 400-211300-6 MS Client Sample ID: MW-4 Prep Type: Total/NA

MS MS %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene 97 72 - 119 Dibromofluoromethane 103 75 - 126 64 - 132 Toluene-d8 (Surr) 82

Lab Sample ID: 400-211300-6 MSD Client Sample ID: MW-4 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 557545

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<1.0		50.0	61.8		ug/L		123	56 - 142	19	30
Toluene	<1.0		50.0	48.3		ug/L		97	65 - 130	18	30
Ethylbenzene	<1.0		50.0	51.6		ug/L		103	58 - 131	23	30
Xylenes, Total	<10		100	106		ug/L		106	59 - 130	21	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	94		72 - 119
Dibromofluoromethane	101		75 - 126
Toluene-d8 (Surr)	80		64 - 132

Lab Sample ID: 400-211300-1

Matrix: Water

Matrix: Water

Client Sample ID: TB-01 Date Collected: 11/15/21 11:00

Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557357	11/26/21 15:58	BEP	TAL PEN
	Instrument	ID: CH TAN								

Lab Sample ID: 400-211300-2 Client Sample ID: DUP-01 **Matrix: Water**

Date Collected: 11/15/21 12:48 Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	5 mL	5 mL	557545	11/28/21 15:13	BPO	TAL PEN
	Instrumer	TID. CH CONAN								

Client Sample ID: MW-1 Lab Sample ID: 400-211300-3

Date Collected: 11/15/21 11:48 Date Received: 11/16/21 09:10

Batch Batch Dil Initial Final Batch Prepared Number Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab 11/28/21 15:39 BPO TAL PEN Total/NA Analysis 8260C 50 5 mL 5 mL 557545 Instrument ID: CH_CONAN

Client Sample ID: MW-2 Lab Sample ID: 400-211300-4 Date Collected: 11/15/21 11:53 **Matrix: Water**

Date Received: 11/16/21 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557357	11/26/21 21:11	BEP	TAL PEN
	Instrumer	nt ID: CH TAN								

Client Sample ID: MW-3 Lab Sample ID: 400-211300-5

Date Collected: 11/15/21 12:02 Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557357	11/26/21 21:38	BEP	TAL PEN
	Instrumer	TAN CH TAN								

Client Sample ID: MW-4 Lab Sample ID: 400-211300-6 **Matrix: Water**

Date Collected: 11/15/21 12:04 Date Received: 11/16/21 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 14:47	BPO	TAL PEN
	Instrumer	t ID: CH CONAN								

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Matrix: Water

Lab Sample ID: 400-211300-7 Client Sample ID: MW-5 Date Collected: 11/15/21 12:07

Matrix: Water

Matrix: Water

Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 20:01	BPO	TAL PEN
	Instrument	ID: CH CONAN								

Client Sample ID: MW-6 Lab Sample ID: 400-211300-8 **Matrix: Water**

Date Collected: 11/15/21 12:10 Date Received: 11/16/21 09:10

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 20:27	ВРО	TAL PEN

Client Sample ID: MW-7 Lab Sample ID: 400-211300-9

Date Collected: 11/15/21 12:15 Date Received: 11/16/21 09:10

Instrument ID: CH CONAN

Batch Batch Dil Initial Final Batch **Prepared** Number Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab TAL PEN Total/NA Analysis 8260C 5 mL 5 mL 557545 11/28/21 20:53 BPO Instrument ID: CH_CONAN

Client Sample ID: MW-8 Lab Sample ID: 400-211300-10 Date Collected: 11/15/21 12:20 **Matrix: Water**

Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 21:19	BPO	TAL PEN
	Instrumer	nt ID: CH CONAN								

Client Sample ID: MW-9 Lab Sample ID: 400-211300-11 Date Collected: 11/15/21 12:23

Date Received: 11/16/21 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 21:45	ВРО	TAL PEN
	Instrumer	TID: CH CONAN								

Client Sample ID: MW-10 Lab Sample ID: 400-211300-12

Date Collected: 11/15/21 12:27 Date Received: 11/16/21 09:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 22:12	BPO	TAL PEN
	Instrumer	nt ID: CH_CONAN								

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Matrix: Water

Matrix: Water

Lab Chronicle

Client: Stantec Consulting Services Inc Job ID: 400-211300-1

Project/Site: Johnston Federal #6A

Lab Sample ID: 400-211300-13 **Client Sample ID: MW-11**

Matrix: Water

Date Collected: 11/15/21 12:30 Date Received: 11/16/21 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	557545	11/28/21 22:38	ВРО	TAL PEN
	Instrumen	t ID: CH_CONAN								

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #6A

Job ID: 400-211300-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Numbe	r Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
lowa	State	367	08-01-22
Kansas	NELAP	E-10253	11-30-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
New Jersey	NELAP	FL006	06-30-22
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
Washington	State	C915	05-15-22
West Virginia DEP	State	136	12-31-21

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Method Summary

Client: Stantec Consulting Services Inc Project/Site: Johnston Federal #6A Job ID: 400-211300-1

MethodMethod DescriptionProtocolLaboratory8260CVolatile Organic Compounds by GC/MSSW846TAL PEN5030CPurge and TrapSW846TAL PEN

Protocol References:

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

Laboratory References:

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

Eurofins TestAmerica, Pensacola

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Eurofins TestAmerica, Pensacola

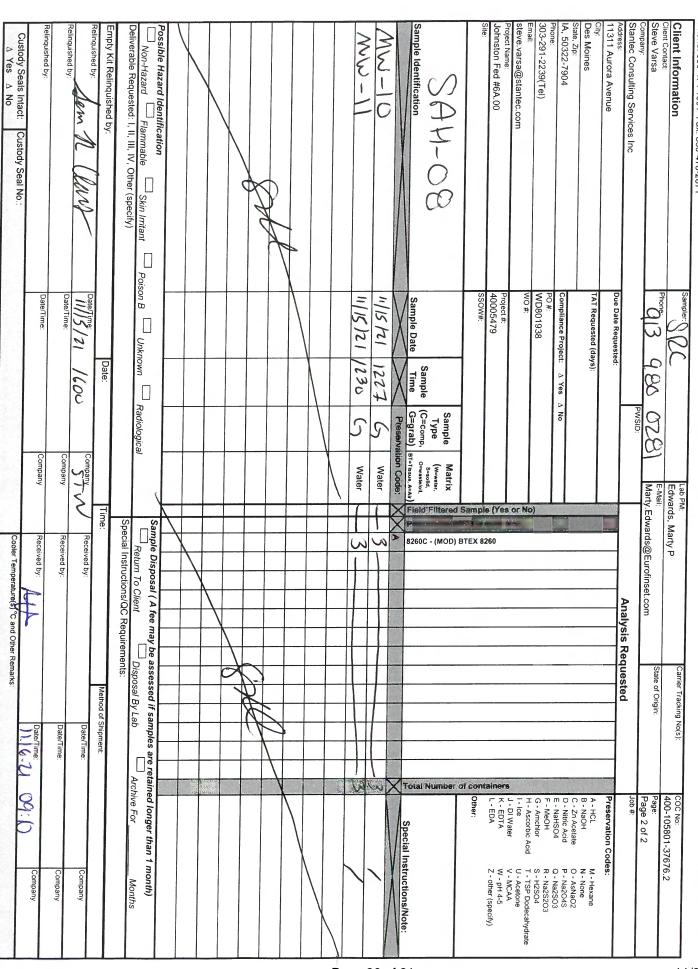
Chain of Custody Record

Pensacola, FL 32514 Phone: 850-474-1001 Fax: 850-478-2671 3355 McLemore Drive 💸 eurofins Environment Testing America

	Sampler: 00			DV4			
Client Information	2210			Edwards, Marty P	rty P	Carrier Tracking No(s):	COC No:
Steve Varsa	913 980	(820 0		E-Mail: Marty.Edward	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page:
Stantec Consulting Services Inc		PWSID					Job#:
Address: 11311 Aurora Avenue	Due Date Requested:				Analysis Rec	Requested	Preservation Codes:
City: Des Moines	TAT Requested (days):	/s):		935 98			
State, Zip: IA, 50322-7904	Compliance Project:	Yes A No				5	C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
Phone: 303-291-2239(Tel)	PO#:			200			
Email:	WO #:			No)		1000000	G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
steve.varsa@stantec.com Project Name:						TO SERVICE STATE OF THE SERVIC	I - Ice J - DI Water
Johnston Fed #6A.00	Project #: 40005479			s or	260	200 COC	K-EDTA
with.	SSOW#:			D (Y	TEX 8		Other:
SAU OS		Sai	Sample Matrix	ered S	OD) B		ber of
		Sample (C=	Type (W-water,	ld Fili form	OC - (I		i Nun
	Sample Date	Time G=	G=grab) BT=Tissue, A=Air		826		Special Instructions/Note:
78-01	17/5/21	1100 6	G Water		7		T - 0 R/ 17
DUR-OI	11/15/21	1248 6	S Water	1	3		R
NW-	1115/21	1148 ((C) Water	1			o Fig ty
MW-Z	12/51/11	1155 6	S Water				2
1	11/15/21	1202 0	G Water	1	3		N (
AW 1	12/5/11	1204 C	C) Water	1			~ ~ ~
WW->	11/15/21	1207 6	() Water	-			
WW6	11/15/21	1210 6	S Water	1	3		
1	11/15/21	1215 (S Water	1	3		
W-W	11/15/21	1220 6) Water	Ì			2
Possible Harard Identification	11/8/11	1213 () Water	-	3		ω,
ant	Poison B Unknown		Radiological	Sam	fee may be	ples	are retained longer than 1 month)
I, III, IV, Other (specify)				Spec	Special Instructions/QC Requirements	:	Archive For Months
Relinquished by:		Date:		Time:		Method of Shipment:	
Relinaushed by Slam N Wary	11/1/5/21	1600	Company	2	Received by:	Date/Time:	Company
Relinquished but	Date/Time:		Company	Z	Received by:	Date/Time:	Company
	Date/Time:		Company	70	Received by:	Date/Time:	Company
△ Yes △ No				O	Cooler Temperature(s) C and Other Remarks:	marks: O. Ooc IRC	
						ı	

3355 McLemore Drive

Eurofins TestAmerica, Pensacola Pensacola, FL 32514 Phone: 850-474-1001 Fax: 850-478-2671 **Chain of Custody Record** eurofins Environment Testing America



Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-211300-1

Login Number: 211300 List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	0.0°C IR9
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	

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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 94398

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C	7046
1001 Louisiana Street	Action Number:
Houston, TX 77002	94398
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Please see App ID 201689 for most updated status.	5/17/2023