2015 ANNUAL GROUNDWATER REPORT

Johnston Fed #4
NMOCD Case #: 3RP-201-0
Meter Code: 70194
T31N, R09W, Sec 33, Unit H

SITE DETAILS

Site Location: Latitude: 36.862800 N, Longitude: -107.771983 W
Land Type: State
Operator: Burlington Resources

SITE BACKGROUND

- **Site Assessment:** 8/94
- **Excavation:** 9/94 (60 cy)

Environmental Remediation activities at the Johnston Fed #4 (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 (OCD) in correspondence dated November 30, 1995; and the OCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Burlington Resources Oil & Gas Company LP and is active.

The Site is located on State/Fee land. Various site investigations have occurred since 1994. Monitoring wells were installed in 1995 (MW-1, MW-2, MW-3), 2006 (MW-4, TMW-5), 2013 (MW-6 through MW-12), and 2014 (MW-13 through MW-20). Temporary piezometers PH-PZ-1, PH-PZ-2, and PH-PZ-3 were installed and abandoned in 1997. Temporary monitoring well TMW-5 was plugged and abandoned in 2014. Free product has been observed and periodically recovered. Currently, groundwater sampling is conducted on a semi-annual basis and free product was observed in wells MW-1, MW-3, MW-6, MW-8, and MW-11 in 2015.

SUMMARY OF 2015 ACTIVITIES

In June 2015, SB-1 was advanced to assess remaining soil impacts in the vicinity of the former pit. A borehole log is provided in Appendix A. During drilling of the SB-1 soil borings, the soil sample intervals exhibiting high photoionization detector (PID) readings were collected and placed in a 4-ounce jar for laboratory analysis. Soil samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) according to United States Environmental Protection Agency (EPA) Method SW846 8021B; total petroleum hydrocarbons (TPH), gasoline-range organics, diesel-range organics, and mineral oil range organics using EPA Method 8015B; and chlorides according to EPA Method 300. Sample jars were stored in an ice-filled cooler and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida (TestAmerica). The soil sample analytical report is provided in Appendix B.

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On July 1, 2015, Sierra Oilfield Services Inc. removed four drums of soil cuttings from the Site and delivered them to Envirotech, Inc. located south of Bloomfield, NM. Disposal documentation is contained in Appendix C.

On May 29 and November 23, 2015, water levels were gauged at wells MW-1 through MW-4 and MW-6 through MW-20. Groundwater samples were collected from each well that did not contain free product using HydraSleeve™ (HydraSleeve) no-purge passive groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells 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 TestAmerica-Pensacola where they were analyzed for BTEX. Additional field parameters were collected from the excess sample water recovered by the HydraSleeve. Excess sample water was poured into a YSI multi-parameter instrument sample cup and analyzed. Field parameters include dissolved oxygen, temperature, conductivity, pH, and oxidation-reduction potential (ORP). Field parameters are not collected if free product is present. The unused sample water is combined in a waste container and taken to Basin Disposal, Inc. for disposal.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively. When free product was present, static water level elevations were corrected for measurable thicknesses of free product (specific gravity of 0.75). Soil analytical results are summarized in Table 3.

SITE MAPS

Groundwater analytical results (Figures 1 and 3) and groundwater elevation contour maps (Figures 2 and 4) summarize results of the 2015 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The soil and groundwater analytical lab reports are provided in Appendices B and D, respectively.

GROUNDWATER RESULTS

- The groundwater flow direction at the Site is generally to the north-northeast (see Figures 2 and 4). The elevations at MW-12 remained anomalous, consistent with past results.
- Free product was observed in MW-1, MW-3, MW-8, and MW-11 in 2015. A sample was collected from MW-1 in May 2015. No other samples were collected from wells containing free product.

- Groundwater samples collected in 2015 from MW-1, MW-6, MW-9, MW-10, MW-15, MW-16 MW-17, MW-18, MW-19, and MW-20 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Concentrations of benzene in monitoring wells MW-2, MW-4, MW-7, MW-12, MW-13, and MW-14 were either below the NMWQCC standard for benzene or not detected.

- The groundwater sample collected from MW-1 and MW-15 during the May 2015 sampling event exceeded the NMWQCC standard (750 µg/L) for toluene in groundwater. All other groundwater samples collected in 2015 were either below the NMWQCC standard for toluene or not detected.

- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in all of the Site monitoring wells sampled in 2015.

- The groundwater sample collected from MW-1 and MW-15 during the May 2015 sampling event exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. All other groundwater samples collected in 2015 were either below the NMWQCC standard for total xylenes or not detected.

SOIL RESULTS

- Soil samples were collected from soil boring SB-1. Sample locations were based on elevated soil screening results. High concentrations for BTEX constituents were detected in the SB-1 samples collected (7.8 milligram per kilogram (mg/kg), 110 mg/kg, 46 mg/kg, and 330 mg/kg, respectively). TPH exceeded the NMOCD 2013 Pit Rule Guidance (100 mg/kg) at all four locations sampled in SB-1. Concentrations of chloride were not detected in any soil sample from collected from SB-1.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis, utilizing a selection of site monitoring wells which provides an adequate representation of site conditions. The 2016 Annual Report will be submitted in early 2017.

TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

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

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Johnston Fed #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	06/18/07	NS	NS	NS	NS
MW-1	09/17/07	NS	NS	NS	NS
MW-1	12/17/07	NS	NS	NS	NS
MW-1	03/10/08	NS	NS	NS	NS
MW-1	06/17/08	NS	NS	NS	NS
MW-1	09/10/08	NS	NS	NS	NS
MW-1	12/02/08	NS	NS	NS	NS
MW-1	03/03/09	NS	NS	NS	NS
MW-1	06/09/09	1630	3000	268	3880
MW-1	08/28/09	NS	NS	NS	NS
MW-1	11/04/09	NS	NS	NS	NS
MW-1	02/11/10	NS	NS	NS	NS
MW-1	06/07/10	1630	3130	213	3840
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/02/10	NS	NS	NS	NS
MW-1	02/07/11	NS	NS	NS	NS
MW-1	05/10/11	1000	1710	206	2400
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/01/11	NS	NS	NS	NS
MW-1	02/21/12	NS	NS	NS	NS
MW-1	05/14/12	1200	2170	152	2580
MW-1	06/09/13	3900	14000	610	10000
MW-1	09/09/13	NS	NS	NS	NS
MW-1	12/12/13	NS	NS	NS	NS
MW-1	04/02/14	NS	NS	NS	NS
MW-1	10/23/14	NS	NS	NS	NS
MW-1	05/29/15	1600	4000	220	2400
MW-1	11/23/15	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	01/04/96	1104	5107	479	4640
MW-2	12/17/96	5900	8970	197	4670
MW-2	03/06/97	4500	6480	236	4920
MW-2	06/22/01	2800	180	41	140
MW-2	09/04/01	NS	NS	NS	NS
MW-2	06/03/02	370	11	24	18
MW-2	09/10/02	NS	NS	NS	NS
MW-2	12/12/02	NS	NS	NS	NS
MW-2	06/18/03	186	<5	34.9	16.8
MW-2	09/16/03	NS	NS	NS	NS
MW-2	12/17/03	NS	NS	NS	NS
MW-2	03/16/04	NS	NS	NS	NS
MW-2	06/22/04	88.9	24	32.9	15.2
MW-2	09/22/04	NS	NS	NS	NS
MW-2	12/21/04	NS	NS	NS	NS
MW-2	03/23/05	NS	NS	NS	NS
MW-2	06/23/05	283	9.4	27.7	64.5
MW-2	09/20/05	NS	NS	NS	NS
MW-2	12/14/05	NS	NS	NS	NS
MW-2	03/27/06	NS	NS	NS	NS
MW-2	06/07/06	92.1	18.4	4.4	5.9
MW-2	09/25/06	NS	NS	NS	NS
MW-2	12/07/06	NS	NS	NS	NS
MW-2	03/28/07	NS	NS	NS	NS
MW-2	06/19/07	83	<1	7.3	7.2
MW-2	09/17/07	NS	NS	NS	NS
MW-2	12/17/07	NS	NS	NS	NS

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Johnston Fed #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	03/10/08	NS	NS	NS	NS
MW-2	06/17/08	201	4.2	16.6	17.9
MW-2	09/10/08	NS	NS	NS	NS
MW-2	12/02/08	NS	NS	NS	NS
MW-2	03/03/09	NS	NS	NS	NS
MW-2	06/04/09	NS	NS	NS	NS
MW-2	06/09/09	18.5	0.82 J	2.8	6.9
MW-2	08/28/09	NS	NS	NS	NS
MW-2	11/04/09	NS	NS	NS	NS
MW-2	02/11/10	NS	NS	NS	NS
MW-2	06/07/10	5.6	0.99 J	<2	<6
MW-2	09/24/10	NS	NS	NS	NS
MW-2	11/02/10	NS	NS	NS	NS
MW-2	02/07/11	NS	NS	NS	NS
MW-2	05/10/11	5.3	1.2	0.046 J	J2.3
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/01/11	NS	NS	NS	NS
MW-2	02/21/12	NS	NS	NS	NS
MW-2	05/14/12	7.2	1.4	0.56 J	2.7 J
MW-2	06/09/13	1.8	<0.30	<0.20	<0.23
MW-2	09/09/13	1.7	<0.30	<0.20	<0.23
MW-2	12/12/13	1.5 J	<0.38	<0.20	0.80 J
MW-2	04/02/14	540	36	230	1500
MW-2	10/23/14	0.74 J	<0.70	<0.50	<1.6
MW-2	05/29/15	0.63 J	<5.0	<1.0	2.6 J
MW-2	11/23/15	<1.0	<1.0	<1.0	<3.0

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	03/19/96	3660	5410	436	3730
MW-3	12/17/96	3910	8210	530	5020
MW-3	03/06/97	6670	12700	759	7020
MW-3	06/22/01	NS	NS	NS	NS
MW-3	09/04/01	NS	NS	NS	NS
MW-3	03/04/02	NS	NS	NS	NS
MW-3	06/03/02	NS	NS	NS	NS
MW-3	09/10/02	NS	NS	NS	NS
MW-3	12/12/02	NS	NS	NS	NS
MW-3	03/14/03	NS	NS	NS	NS
MW-3	06/18/03	NS	NS	NS	NS
MW-3	09/16/03	NS	NS	NS	NS
MW-3	12/17/03	NS	NS	NS	NS
MW-3	03/16/04	NS	NS	NS	NS
MW-3	06/22/04	NS	NS	NS	NS
MW-3	09/22/04	NS	NS	NS	NS
MW-3	12/21/04	NS	NS	NS	NS
MW-3	03/23/05	NS	NS	NS	NS
MW-3	06/23/05	NS	NS	NS	NS
MW-3	09/20/05	NS	NS	NS	NS
MW-3	12/14/05	NS	NS	NS	NS
MW-3	12/15/05	NS	NS	NS	NS
MW-3	03/27/06	NS	NS	NS	NS
MW-3	06/07/06	NS	NS	NS	NS
MW-3	09/25/06	NS	NS	NS	NS
MW-3	12/07/06	NS	NS	NS	NS
MW-3	03/28/07	NS	NS	NS	NS
MW-3	06/18/07	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	09/17/07	NS	NS	NS	NS
MW-3	12/17/07	NS	NS	NS	NS
MW-3	03/10/08	NS	NS	NS	NS
MW-3	06/17/08	NS	NS	NS	NS
MW-3	09/10/08	NS	NS	NS	NS
MW-3	12/02/08	NS	NS	NS	NS
MW-3	03/03/09	NS	NS	NS	NS
MW-3	06/09/09	6100	8700	627	6630
MW-3	08/28/09	NS	NS	NS	NS
MW-3	11/04/09	NS	NS	NS	NS
MW-3	02/11/10	NS	NS	NS	NS
MW-3	06/07/10	7440	10800	578	7170
MW-3	09/24/10	NS	NS	NS	NS
MW-3	11/02/10	NS	NS	NS	NS
MW-3	02/07/11	NS	NS	NS	NS
MW-3	05/10/11	4180	4990	421	3780
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/01/11	NS	NS	NS	NS
MW-3	02/21/12	NS	NS	NS	NS
MW-3	05/14/12	8100	15800	1040	11100
MW-3	06/09/13	5100	12000	870	11000
MW-3	09/09/13	NS	NS	NS	NS
MW-3	12/12/13	NS	NS	NS	NS
MW-3	04/02/14	NS	NS	NS	NS
MW-3	10/23/14	NS	NS	NS	NS
MW-3	05/29/15	NS	NS	NS	NS
MW-3	11/23/15	NS	NS	NS	NS

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

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Fed #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
TMW-5	12/07/06	NS	NS	NS	NS
TMW-5	03/28/07	NS	NS	NS	NS
TMW-5	06/19/07	2730	7.6	680	1160
TMW-5	09/17/07	NS	NS	NS	NS
TMW-5	12/17/07	NS	NS	NS	NS
TMW-5	03/10/08	NS	NS	NS	NS
TMW-5	06/17/08	3190	217	651	1220
TMW-5	09/10/08	NS	NS	NS	NS
TMW-5	12/02/08	NS	NS	NS	NS
TMW-5	03/03/09	NS	NS	NS	NS
TMW-5	06/09/09	1540	285	568	784
TMW-5	08/28/09	NS	NS	NS	NS
TMW-5	11/04/09	NS	NS	NS	NS
TMW-5	02/11/10	NS	NS	NS	NS
TMW-5	06/07/10	1970	207	591	746
TMW-5	09/24/10	NS	NS	NS	NS
TMW-5	11/02/10	NS	NS	NS	NS
TMW-5	02/07/11	NS	NS	NS	NS
TMW-5	05/10/11	3730	124	459	221
TMW-5	09/23/11	NS	NS	NS	NS
TMW-5	11/01/11	NS	NS	NS	NS
TMW-5	02/21/12	NS	NS	NS	NS
TMW-5	05/14/12	6180	52.6	614	243
TMW-5	06/09/13	6400	210	400	180
TMW-5	09/09/13	5600	26	470	100
TMW-5	12/12/13	3900	29 J	400	120
TMW-5	04/02/14	4900	770	510	630
TMW-5	Well abandoned 8/11/2014				

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Johnston Fed #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	12/12/13	NS	NS	NS	NS
MW-6	04/02/14	NS	NS	NS	NS
MW-6	10/23/14	230	3.3	420	120
MW-6	05/29/15	130	4.8 J	210	86
MW-6	11/23/15	330	21	260	84
MW-7	12/12/13	120	110	49 J	490
MW-7	04/02/14	3.5	3.6	4	<0.65
MW-7	10/23/14	4.6	<0.70	2.8	<1.6
MW-7	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-7	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-8	12/12/13	NS	NS	NS	NS
MW-8	04/02/14	NS	NS	NS	NS
MW-8	10/23/14	NS	NS	NS	NS
MW-8	05/29/15	NS	NS	NS	NS
MW-8	11/23/15	NS	NS	NS	NS
MW-9	12/12/13	180	310	46	430
MW-9	04/02/14	230	27	140	810
MW-9	10/23/14	10	1.6	9.4	2.9 J
MW-9	05/29/15	15	8.4 J	6	21
MW-9	11/23/15	9	2.8	<1.0	<3.0
MW-10	12/12/13	1200	3500	300	3200
MW-10	04/02/14	4.3	7	<0.20	13
MW-10	10/23/14	93	1.3	87	50
MW-10	05/29/15	130	8.5	31	13
MW-10	11/23/15	120	20	8.8	11
MW-11	12/12/13	NS	NS	NS	NS
MW-11	04/02/14	NS	NS	NS	NS
MW-11	10/23/14	NS	NS	NS	NS
MW-11	05/29/15	NS	NS	NS	NS
MW-11	11/23/15	NS	NS	NS	NS
MW-12	12/12/13	<0.14	<0.30	<0.20	0.39 J
MW-12	04/02/14	<0.20	0.54 J	<0.20	<0.65
MW-12	10/23/14	0.71 J	<0.70	0.59 J	<1.6
MW-12	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-12	11/23/15	<1.0	<1.0	<1.0	<3.0

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Johnston Fed #4					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-13	10/23/14	710	2	7.8	21
MW-13	05/29/15	6.1	<5.0	0.81 J	2.4 J
MW-13	11/23/15	3.7	<1.0	<1.0	<3.0
MW-14	10/23/14	<0.38	<0.70	<0.50	<1.6
MW-14	05/29/15	<1.0	<5.0	<1.0	<5.0
MW-14	11/23/15	<1.0	<1.0	<1.0	<3.0
MW-15	10/23/14	61	1	18	120
MW-15	05/29/15	3200	1500	410	1700
MW-15	11/23/15	180	19	19	24
MW-16	10/23/14	0.93 J	<0.70	<0.50	3.4 J
MW-16	05/29/15	54	15	22	24
MW-16	11/23/15	4.2	1.1	2.3	<3.0
MW-17	10/23/14	3	<0.70	1.5	4.6 J
MW-17	05/29/15	6.7	0.98 J	3.4	16
MW-17	11/23/15	14	<1.0	5.9	12
MW-18	10/23/14	6.5	3.2	<0.50	11
MW-18	05/29/15	12	7.2	2.8	16
MW-18	11/23/15	18	10	3.6	24
MW-19	10/23/14	22	6	1.7	20
MW-19	05/29/15	3.7	<5.0	1.3	2.6 J
MW-19	11/23/15	67	18	15	40
MW-20	10/23/14	28	2.7	2.6	42
MW-20	05/29/15	28	3.7 J	10	6.3
MW-20	11/23/15	6.9	<1.0	12	<3.0

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

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	08/08/95	6073.45	50.08	NR		6023.37
MW-1	01/04/96	6073.45	50.23	NR		6023.22
MW-1	12/17/96	6073.45	50.50	49.94	0.56	6023.37
MW-1	03/06/97	6073.45	50.38	49.99	0.39	6023.36
MW-1	06/22/01	6073.45	49.96	49.82	0.14	6023.59
MW-1	09/04/01	6073.45	50.05	49.94	0.11	6023.48
MW-1	03/04/02	6073.45	50.40	50.23	0.17	6023.18
MW-1	06/03/02	6073.45	50.50	50.31	0.19	6023.09
MW-1	09/10/02	6073.45	50.70	50.51	0.19	6022.89
MW-1	12/12/02	6073.45	50.83	50.60	0.23	6022.79
MW-1	03/14/03	6073.45	50.90	50.73	0.17	6022.68
MW-1	06/18/03	6073.45	51.28	50.74	0.54	6022.57
MW-1	09/16/03	6073.45	51.70	50.78	0.92	6022.44
MW-1	12/17/03	6073.45	51.15	50.92	0.23	6022.47
MW-1	03/16/04	6073.45	51.14	50.98	0.16	6022.43
MW-1	06/22/04	6073.45	51.15	51.02	0.13	6022.40
MW-1	09/22/04	6073.45	51.18	51.06	0.12	6022.36
MW-1	12/21/04	6073.45	51.15	51.08	0.07	6022.35
MW-1	03/23/05	6073.45	51.13	ND		6022.32
MW-1	06/23/05	6073.45	51.09	ND		6022.36
MW-1	09/20/05	6073.45	51.12	ND		6022.33
MW-1	12/14/05	6073.45	51.02	ND		6022.43
MW-1	12/15/05	6073.45	51.02	ND		6022.43
MW-1	03/27/06	6073.45	51.86	ND		6021.59
MW-1	06/07/06	6073.45	50.92	ND		6022.53
MW-1	09/25/06	6073.45	51.09	ND		6022.36
MW-1	12/07/06	6073.45	51.06	ND		6022.39

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	03/28/07	6073.45	50.85	ND		6022.60
MW-1	06/18/07	6073.45	50.90	ND		6022.55
MW-1	09/17/07	6073.45	51.04	ND		6022.41
MW-1	12/17/07	6073.45	51.05	ND		6022.40
MW-1	03/10/08	6073.45	50.93	ND		6022.52
MW-1	06/17/08	6073.45	50.14	ND		6023.31
MW-1	09/10/08	6073.45	49.81	ND		6023.64
MW-1	12/02/08	6073.45	49.66	ND		6023.79
MW-1	03/03/09	6073.45	49.60	ND		6023.85
MW-1	06/09/09	6073.45	49.61	ND		6023.84
MW-1	08/28/09	6073.45	49.71	ND		6023.74
MW-1	11/04/09	6073.45	49.83	ND		6023.62
MW-1	02/11/10	6073.45	49.93	ND		6023.52
MW-1	06/07/10	6073.45	50.12	ND		6023.33
MW-1	09/24/10	6073.45	50.33	ND		6023.12
MW-1	11/02/10	6073.45	50.40	ND		6023.05
MW-1	02/07/11	6073.45	50.53	ND		6022.92
MW-1	05/10/11	6073.45	50.69	ND		6022.76
MW-1	09/23/11	6073.45	50.93	ND		6022.52
MW-1	11/01/11	6073.45	50.99	ND		6022.46
MW-1	02/21/12	6073.45	51.15	ND		6022.30
MW-1	05/14/12	6073.45	51.24	ND		6022.21
MW-1	06/09/13	6073.45	51.68	51.61	0.07	6021.82
MW-1	09/09/13	6073.45	51.84	51.78	0.06	6021.65
MW-1	12/12/13	6073.45	51.85	51.80	0.05	6021.64
MW-1	04/02/14	6073.45	51.81	ND		6021.64
MW-1	10/23/14	6073.45	52.04	51.95	0.09	6021.48
MW-1	05/29/15	6073.45	52.02	ND		6021.43
MW-1	11/23/15	6073.45	51.76	51.76		6021.69

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-2	01/04/96	6072.14	48.71	NR		6023.43
MW-2	12/17/96	6072.14	48.84	NR		6023.30
MW-2	03/06/97	6072.14	48.94	NR		6023.20
MW-2	06/22/01	6072.14	48.62	NR		6023.52
MW-2	09/04/01	6072.14	48.78	NR		6023.36
MW-2	06/03/02	6072.14	49.15	NR		6022.99
MW-2	09/10/02	6072.14	49.27	NR		6022.87
MW-2	12/12/02	6072.14	49.42	NR		6022.72
MW-2	06/18/03	6072.14	49.62	ND		6022.52
MW-2	09/16/03	6072.14	49.76	ND		6022.38
MW-2	12/17/03	6072.14	49.72	ND		6022.42
MW-2	03/16/04	6072.14	49.78	ND		6022.36
MW-2	06/22/04	6072.14	49.82	ND		6022.32
MW-2	09/22/04	6072.14	49.84	ND		6022.30
MW-2	12/21/04	6072.14	49.86	ND		6022.28
MW-2	03/23/05	6072.14	49.89	ND		6022.25
MW-2	06/23/05	6072.14	49.87	ND		6022.27
MW-2	09/20/05	6072.14	49.89	ND		6022.25
MW-2	12/14/05	6072.14	49.75	ND		6022.39
MW-2	03/27/06	6072.14	49.62	ND		6022.52
MW-2	06/07/06	6072.14	49.67	ND		6022.47
MW-2	09/25/06	6072.14	49.85	ND		6022.29
MW-2	12/07/06	6072.14	49.82	ND		6022.32
MW-2	03/28/07	6072.14	49.63	ND		6022.51
MW-2	06/19/07	6072.14	49.67	ND		6022.47
MW-2	09/17/07	6072.14	49.82	ND		6022.32
MW-2	12/17/07	6072.14	49.82	ND		6022.32

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-2	03/10/08	6072.14	49.92	ND		6022.22
MW-2	06/17/08	6072.14	48.93	ND		6023.21
MW-2	09/10/08	6072.14	48.60	ND		6023.54
MW-2	12/02/08	6072.14	48.43	ND		6023.71
MW-2	03/03/09	6072.14	48.37	ND		6023.77
MW-2	06/04/09	6072.14	48.38	ND		6023.76
MW-2	06/09/09	6072.14	48.43	ND		6023.71
MW-2	08/28/09	6072.14	48.50	ND		6023.64
MW-2	11/04/09	6072.14	48.62	ND		6023.52
MW-2	02/11/10	6072.14	48.72	ND		6023.42
MW-2	06/07/10	6072.14	48.98	ND		6023.16
MW-2	09/24/10	6072.14	49.11	ND		6023.03
MW-2	11/02/10	6072.14	49.17	ND		6022.97
MW-2	02/07/11	6072.14	49.33	ND		6022.81
MW-2	05/10/11	6072.14	49.45	ND		6022.69
MW-2	09/23/11	6072.14	49.72	ND		6022.42
MW-2	11/01/11	6072.14	49.77	ND		6022.37
MW-2	02/21/12	6072.14	49.91	ND		6022.23
MW-2	05/14/12	6072.14	50.00	ND		6022.14
MW-2	06/09/13	6072.14	50.38	ND		6021.76
MW-2	09/09/13	6072.14	50.56	ND		6021.58
MW-2	12/12/13	6072.14	50.56	ND		6021.58
MW-2	04/02/14	6072.14	50.59	ND		6021.55
MW-2	10/23/14	6072.14	50.73	ND		6021.41
MW-2	05/29/15	6072.14	50.80	ND		6021.34
MW-2	11/23/15	6072.14	50.54	ND		6021.60

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	03/19/96	6073.11	49.81	NR		6023.30
MW-3	12/17/96	6073.11	49.84	NR		6023.27
MW-3	03/06/97	6073.11	49.87	49.83	0.04	6023.27
MW-3	06/22/01	6073.11	49.66	49.58	0.08	6023.51
MW-3	09/04/01	6073.11	49.76	49.70	0.06	6023.39
MW-3	03/04/02	6073.11	50.35	49.91	0.44	6023.09
MW-3	06/03/02	6073.11	50.62	49.96	0.66	6022.98
MW-3	09/10/02	6073.11	50.79	50.12	0.67	6022.82
MW-3	12/12/02	6073.11	50.95	50.25	0.70	6022.68
MW-3	03/14/03	6073.11	51.03	50.34	0.69	6022.60
MW-3	06/18/03	6073.11	51.16	50.45	0.71	6022.48
MW-3	09/16/03	6073.11	51.30	50.59	0.71	6022.34
MW-3	12/17/03	6073.11	51.08	50.60	0.48	6022.39
MW-3	03/16/04	6073.11	51.10	50.68	0.42	6022.32
MW-3	06/22/04	6073.11	51.22	50.68	0.54	6022.29
MW-3	09/22/04	6073.11	51.30	50.69	0.61	6022.27
MW-3	12/21/04	6073.11	51.32	50.71	0.61	6022.25
MW-3	03/23/05	6073.11	51.85	50.76	1.09	6022.08
MW-3	06/23/05	6073.11	51.20	50.76	0.44	6022.24
MW-3	09/20/05	6073.11	51.43	ND	0.00	6021.68
MW-3	12/14/05	6073.11	51.31	ND	0.00	6021.80
MW-3	12/15/05	6073.11	51.32	50.92	0.40	6022.09
MW-3	03/27/06	6073.11	50.92	50.58	0.34	6022.44
MW-3	06/07/06	6073.11	51.01	50.56	0.45	6022.44
MW-3	09/25/06	6073.11	51.27	50.80	0.47	6022.19
MW-3	12/07/06	6073.11	51.07	50.77	0.30	6022.26
MW-3	03/28/07	6073.11	50.99	50.66	0.33	6022.37
MW-3	06/18/07	6073.11	50.97	50.58	0.39	6022.43

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-3	09/17/07	6073.11	51.15	50.78	0.37	6022.24
MW-3	12/17/07	6073.11	51.08	50.78	0.30	6022.25
MW-3	03/10/08	6073.11	50.90	50.75	0.15	6022.32
MW-3	06/17/08	6073.11	49.98	49.89	0.09	6023.20
MW-3	09/10/08	6073.11	49.77	ND		6023.34
MW-3	12/02/08	6073.11	49.58	ND		6023.53
MW-3	03/03/09	6073.11	49.55	ND		6023.56
MW-3	06/09/09	6073.11	49.39	ND		6023.72
MW-3	08/28/09	6073.11	49.65	ND		6023.46
MW-3	11/04/09	6073.11	49.63	ND		6023.48
MW-3	02/11/10	6073.11	49.83	ND		6023.28
MW-3	06/07/10	6073.11	49.90	49.70	0.20	6023.36
MW-3	09/24/10	6073.11	50.19	ND		6022.92
MW-3	11/02/10	6073.11	50.26	ND		6022.85
MW-3	02/07/11	6073.11	50.40	ND		6022.71
MW-3	05/10/11	6073.11	50.46	ND		6022.65
MW-3	09/23/11	6073.11	50.73	ND		6022.38
MW-3	11/01/11	6073.11	50.82	ND		6022.29
MW-3	02/21/12	6073.11	51.36	50.86	0.50	6022.12
MW-3	05/14/12	6073.11	51.50	50.84	0.66	6022.10
MW-3	06/09/13	6073.11	52.02	51.15	0.87	6021.74
MW-3	09/09/13	6073.11	52.36	51.29	1.07	6021.55
MW-3	12/12/13	6073.11	52.39	51.30	1.09	6021.54
MW-3	04/02/14	6073.11	52.41	51.30	1.11	6021.53
MW-3	10/23/14	6073.11	52.59	51.43	1.16	6021.39
MW-3	05/29/15	6073.11	52.64	51.51	1.13	6021.32
MW-3	11/23/15	6073.11	52.11	51.32	0.79	6021.59

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	12/07/06	6072.71	50.40	ND		6022.31
MW-4	03/28/07	6072.71	50.19	ND		6022.52
MW-4	06/19/07	6072.71	50.21	ND		6022.50
MW-4	09/17/07	6072.71	50.34	ND		6022.37
MW-4	12/17/07	6072.71	49.78	ND		6022.93
MW-4	03/10/08	6072.71	50.30	ND		6022.41
MW-4	06/17/08	6072.71	49.50	ND		6023.21
MW-4	09/10/08	6072.71	49.17	ND		6023.54
MW-4	12/02/08	6072.71	49.00	ND		6023.71
MW-4	03/03/09	6072.71	48.93	ND		6023.78
MW-4	06/09/09	6072.71	48.94	ND		6023.77
MW-4	08/28/09	6072.71	49.04	ND		6023.67
MW-4	11/04/09	6072.71	49.16	ND		6023.55
MW-4	02/11/10	6072.71	49.26	ND		6023.45
MW-4	06/07/10	6072.71	49.45	ND		6023.26
MW-4	09/24/10	6072.71	49.15	ND		6023.56
MW-4	11/02/10	6072.71	49.73	ND		6022.98
MW-4	02/07/11	6072.71	49.86	ND		6022.85
MW-4	05/10/11	6072.71	49.98	ND		6022.73
MW-4	09/23/11	6072.71	50.09	ND		6022.62
MW-4	11/01/11	6072.71	50.31	ND		6022.40
MW-4	02/21/12	6072.71	50.46	ND		6022.25
MW-4	05/14/12	6072.71	50.55	ND		6022.16
MW-4	06/09/13	6072.71	50.93	ND		6021.78
MW-4	09/09/13	6072.71	51.11	ND		6021.60
MW-4	12/12/13	6072.71	51.12	ND		6021.59
MW-4	04/02/14	6072.71	51.14	ND		6021.57
MW-4	10/23/14	6072.71	51.26	ND		6021.45
MW-4	05/29/15	6072.71	51.33	ND		6021.38
MW-4	11/23/15	6072.71	51.08	ND		6021.63

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
TMW-5	12/07/06	6072.29	49.83	ND		6022.46
TMW-5	03/28/07	6072.29	49.58	ND		6022.71
TMW-5	06/19/07	6072.29	49.64	ND		6022.65
TMW-5	09/17/07	6072.29	49.77	ND		6022.52
TMW-5	12/17/07	6072.29	50.38	ND		6021.91
TMW-5	03/10/08	6072.29	46.59	ND		6025.70
TMW-5	06/17/08	6072.29	48.87	ND		6023.42
TMW-5	09/10/08	6072.29	48.56	ND		6023.73
TMW-5	12/02/08	6072.29	48.44	ND		6023.85
TMW-5	03/03/09	6072.29	44.40	ND		6027.89
TMW-5	06/09/09	6072.29	48.38	ND		6023.91
TMW-5	08/28/09	6072.29	DRY	ND		0.00
TMW-5	11/04/09	6072.29	48.58	ND		6023.71
TMW-5	02/11/10	6072.29	48.67	ND		6023.62
TMW-5	06/07/10	6072.29	48.81	ND		6023.48
TMW-5	09/24/10	6072.29	49.04	ND		6023.25
TMW-5	11/02/10	6072.29	49.12	ND		6023.17
TMW-5	02/07/11	6072.29	49.30	ND		6022.99
TMW-5	05/10/11	6072.29	49.41	ND		6022.88
TMW-5	09/23/11	6072.29	49.70	ND		6022.59
TMW-5	11/01/11	6072.29	49.71	ND		6022.58
TMW-5	02/21/12	6072.29	49.87	ND		6022.42
TMW-5	05/14/12	6072.29	49.96	ND		6022.33
TMW-5	06/09/13	6072.29	50.31	ND		6021.98
TMW-5	09/09/13	6072.29	50.48	ND		6021.81
TMW-5	12/12/13	6072.29	50.53	ND		6021.76
TMW-5	04/02/14	6072.29	50.54	ND		6021.75
TMW-5	abandon					

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-6	12/12/13	6072.74	51.13	51.10	0.03	6021.63
MW-6	04/02/14	6072.74	51.15	51.12	0.03	6021.61
MW-6	10/23/14	6072.74	51.26	ND		6021.48
MW-6	05/29/15	6072.74	51.34	ND		6021.40
MW-6	11/23/15	6072.74	51.08	ND		6021.66
MW-7	12/12/13	6072.63	51.12	ND		6021.51
MW-7	04/02/14	6072.63	51.13	ND		6021.50
MW-7	10/23/14	6072.63	51.25	ND		6021.38
MW-7	05/29/15	6072.63	51.33	ND		6021.30
MW-7	11/23/15	6072.63	51.06	ND		6021.57
MW-8	12/12/13	6072.62	51.94	50.80	1.14	6021.54
MW-8	04/02/14	6072.62	51.93	50.81	1.12	6021.53
MW-8	10/23/14	6072.62	52.12	50.93	1.19	6021.39
MW-8	05/29/15	6072.62	52.18	51.00	1.18	6021.33
MW-8	11/23/15	6072.62	51.63	50.83	0.80	6021.59
MW-9	12/12/13	6073.63	51.85	ND		6021.78
MW-9	04/02/14	6073.63	51.87	ND		6021.76
MW-9	10/23/14	6073.63	52.01	ND		6021.62
MW-9	05/29/15	6073.63	52.08	ND		6021.55
MW-9	11/23/15	6073.63	51.83	ND		6021.80
MW-10	12/12/13	6073.44	51.79	ND		6021.65
MW-10	04/02/14	6073.44	51.81	ND		6021.63
MW-10	10/23/14	6073.44	51.94	ND		6021.50
MW-10	05/29/15	6073.44	52.03	ND		6021.41
MW-10	11/23/15	6073.44	51.74	ND		6021.70
MW-11	12/12/13	6073.38	52.43	51.60	0.83	6021.57
MW-11	04/02/14	6073.38	52.33	51.61	0.72	6021.59
MW-11	10/23/14	6073.38	52.59	51.73	0.86	6021.44
MW-11	05/29/15	6073.38	52.69	51.79	0.90	6021.37
MW-11	11/23/15	6073.38	52.14	51.61	0.53	6021.64
MW-12	12/12/13	6073.30	48.13	ND		6025.17
MW-12	04/02/14	6073.30	48.09	ND		6025.21
MW-12	10/23/14	6073.30	48.31	ND		6024.99
MW-12	05/29/15	6073.30	48.31	ND		6024.99
MW-12	11/23/15	6073.30	48.11	ND		6025.19
MW-13	10/23/14	6073.25	51.62	ND		6021.63
MW-13	05/29/15	6073.25	51.69	ND		6021.56
MW-13	11/23/15	6073.25	51.42	ND		6021.83

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Johnston Fed #4						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-14	10/23/14	6073.14	51.53	ND		6021.61
MW-14	05/29/15	6073.14	51.60	ND		6021.54
MW-14	11/23/15	6073.14	51.33	ND		6021.81
MW-15	10/23/14	6072.47	51.14	ND		6021.33
MW-15	05/29/15	6072.47	51.19	ND		6021.28
MW-15	11/23/15	6072.47	50.93	ND		6021.54
MW-16	10/23/14	6071.78	50.49	ND		6021.29
MW-16	05/29/15	6071.78	50.57	ND		6021.21
MW-16	11/23/15	6071.78	50.30	ND		6021.48
MW-17	10/23/14	6071.79	50.51	ND		6021.28
MW-17	05/29/15	6071.79	50.58	ND		6021.21
MW-17	11/23/15	6071.79	50.31	ND		6021.48
MW-18	10/23/14	6072.71	51.28	ND		6021.43
MW-18	05/29/15	6072.71	51.37	ND		6021.34
MW-18	11/23/15	6072.71	51.09	ND		6021.62
MW-19	10/23/14	6074.00	52.41	ND		6021.59
MW-19	05/29/15	6074.00	52.48	ND		6021.52
MW-19	11/23/15	6074.00	52.21	ND		6021.79
MW-20	10/23/14	6072.77	51.33	ND		6021.44
MW-20	05/29/15	6072.77	51.41	ND		6021.36
MW-20	11/23/15	6072.77	51.14	ND		6021.63

Notes:
"ft" = feet
"TOC" - Top of casing
"LNAPL" = light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded

TABLE 3 - SOIL ANALYTICAL RESULTS

Johnston Federal #4																		
Location	**Date**	**Benzene (mg/kg)**		**Toluene (mg/kg)**		**Ethylbenzene (mg/kg)**		**Total Xylenes (mg/kg)**		**BTEX Total (mg/kg)**	**GRO C6-10 (mg/kg)**	**DRO C10-28 (mg/kg)**	**MRO C28-35 (mg/kg)**	**TPH (mg/kg)**		**Chloride (mg/kg)**	
NMOCD Criteria:		10		NE		NE		NE		50	NE	NE	NE	100		600	
B3(48-52)	01/05/06	**12.1**		14.6		1.20		10.2		38.1	--	--	--	--		--	
B4(48-52)	01/04/06	**153**		381		16.5		130		**681**	--	--	--	--		--	
B5(49-53)	01/04/06	**112**		157		14.7		104		**388**	--	--	--	--		--	
B6(46-50)	01/05/06	**7380**		11700		841		7960		**27881**	--	--	--	--		--	
MW-6(47.5-50)	11/06/13	0.037	J	0.50		0.17		2.0		2.71	--	--	--	**150**		81	
MW-7(43-45)	11/02/13	BDL		0.24		0.37		5.1		5.71	--	--	--	33	J	59	
MW-8(47.5-50)	11/04/13	BDL		0.19		0.17		2.4		2.76	--	--	--	**620**		83	
MW-9(53-55)	11/07/13	0.031	J	0.51		0.32		3.1		3.96	--	--	--	**150**		27	J
MW-10(52.5-55)	11/06/13	0.018	J	0.09		0.023	J	0.27		0.40	--	--	--	**630**		32	J
MW-11(50-52.5)	11/04/13	BDL		0.040	J	0.098	J	1.6		1.74	--	--	--	**170**		82	
MW-12(52.5-55)	11/05/13	BDL		BDL		BDL		BDL		BDL	--	--	--	**120**		18	J
MW-13 (50-52)	08/10/14	0.00497	J	BDL		0.0318		BDL		0.037	--	--	--	**1000**	H	2.19	J
MW-14 (38-40)	08/07/14	BDL		BDL		BDL		BDL		BDL	--	--	--	BDL	H	3.42	J
MW-15 (48-50)	08/08/14	1.64		13.6		2.34		25.5		43.1	--	--	--	**2100**	H	3.55	J
MW-16 (48-50)	08/09/14	0.144		1.25		0.302		4.03		5.73	--	--	--	46	H	4.07	
MW-17 (46-48)	08/12/14	0.0754	J	0.480		0.367		4.35		5.27	--	--	--	50		3.12	J
MW-18 (48-50)	08/11/14	0.0248		0.343		0.196		2.23		2.79	--	--	--	45	H	4.21	
MW-19 (48-50)	08/07/14	0.0253		0.119		0.082		0.786		1.01	--	--	--	BDL	H	3.6	J
MW-20 (48-50)	08/10/14	0.0266		1.00		0.306		4.34		5.67	--	--	--	**150**	H	2.35	J
SB-1 (36.1-38)	06/30/15	BRL		BRL		2.4		11		13.4	730	160	BRL	**890**		BRL	
SB-1 (38-40)	06/30/15	7.8		110		46		330		**494**	5,800	320	BRL	**6120**		BRL	
SB-1 (42.5-45)	06/30/15	7.5		73		24		170		**275**	3,500	160	BRL	**3660**		BRL	
SB-1 (46.9-48)	06/30/15	1.8		26		13		86		**127**	1,800	250	BRL	**2050**		BRL	

Notes:

J	Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time.
mg/kg	Milligrams per kilogram
BDL	Below Detection Limit
BRL	Below Reporting Limit
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents
Total TPH	Total Petroleum Hydrocarbon, concentration as reported by the analytical laboratory or calculated by adding GRO, DRO, and MRO and rounded to the nearest mg/kg.
NMOCD Criteria	New Mexico Oil Conservation Division closure criteria for groundwater 50 feet or less below the bottom of pit to groundwater less than 10,000 mg/L TDS Results bolded and highlighted yellow exceed their respective NMOCD Standards

FIGURES

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\JOHNSTON FED #4\2015 MAPS\JFed_#4_GARM_1SA_2015.mxd

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

AREA OF FORMER PIT
OR EXCAVATION

FORMER EPC PIT
EXCAVATED TO 12 FEET

MW-4
B: <1.0
T: 1.3 J
E: <1.0
X: <5.0

MW-19
B: 3.7
T: <5.0
E: 1.3
X: 2.6 J

MW-6
B: **130**
T: 4.8 J
E: 210
X: 86

MW-18
B: **12**
T: 7.2
E: 2.8
X: 16

MW-1
B: **1600**
T: **4000**
E: 220
X: **2400**

MW-2
B: 0.63 J
T: <5.0
E: <1.0
X: 2.6 J

MW-3
NS

MW-7
B: <1.0
T: <5.0
E: <1.0
X: <5.0

MW-9
B: **15**
T: 8.4 J
E: 6
X: 21

MW-20
B: **28**
T: 3.7 J
E: 10
X: 6.3

MW-8
NS

MW-16
B: **54**
T: 15
E: 22
X: 24

MW-17
B: 6.7
T: 0.98 J
E: 3.4
X: 16

MW-10
B: **130**
T: 8.5
E: 31
X: 13

MW-11
NS

MW-13
B: 6.1
T: <5.0
E: 0.81 J
X: 2.4 J

MW-14
B: <1.0
T: <5.0
E: <1.0
X: <5.0

MW-15
B: **3200**
T: **1500**
E: 410
X: **1700**

MW-12
B: <1.0
T: <5.0
E: <1.0
X: <5.0

GP-3 GP-4 GP-5 GP-6

TMW-5

Conoco Phillips MW-1
Conoco Phillips MW-2
Conoco Phillips MW-3
Conoco Phillips MW-4

6070

FROM GOOGLE EARTH; DATED 5/2/2013.

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- FENCE
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- GEOPROBE BORING LOCATION
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- SMA BENCHMARK
- SOIL BORING LOCATION

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT
J = RESULT IS LESS THAN THE RL, BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
MDL = METHOD DETECTION LIMIT
RL = REPORTING LIMIT OR REQUESTED LIMIT (RADIOCHEMISTRY)

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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2/12/2016	CCL	CCL	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS SAMPLED MAY 29, 2015

PROJECT:

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

MWH

Figure No.: 1

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\JOHNSTON FED #4\2015 MAPS\JFed_#4_GECM_1SA_2015.mxd

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

AREA OF FORMER PIT
OR EXCAVATION

FORMER EPC PIT
EXCAVATED TO 12 FEET

MW-4 6021.38
MW-19 6021.52
MW-6 6021.40
MW-1 6021.43
MW-18 6021.34
MW-3 6021.32
MW-7 6021.30
MW-2 6021.34
MW-20 6021.36
MW-17 6021.21
MW-9 6021.55
MW-8 6021.33
MW-10 6021.41
MW-16 6021.21
MW-11 6021.37
MW-15 6021.28
MW-13 6021.56
MW-12 6024.99*
MW-14 6021.54

GP-3 GP-4 GP-5 GP-6
SB-1
TMW-5

6073 6072 6071 6070
6021.5 6021.4 6021.3

Conoco Phillips MW-2
Conoco Phillips MW-1
Conoco Phillips MW-4
Conoco Phillips MW-3

FROM GOOGLE EARTH; DATED 5/2/2013.

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- G A S — GAS LINE
- FENCE
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- GEOPROBE BORING LOCATION
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- SMA BENCHMARK
- SOIL BORING LOCATION

NOTES:

6021.3 — GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6021.5 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS FOR MW-12 AND WAS NOT INCLUDED IN THE GROUNDWATER ELEVATION CONTOURS.

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2/12/2016	CCL	CCL	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 29, 2015

PROJECT:

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

MWH

Figure No.: 2

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\JOHNSTON FED #4\2015 MAPS\JFed_#4_GARM_2SA_2015.mxd

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

MW-4
B: <1.0
T: <1.0
E: <1.0
X: <3.0

AREA OF FORMER PIT
OR EXCAVATION

MW-19
B: **67**
T: 18
E: 15
X: 40

GP-3

MW-6
B: **330**
T: 21
E: 260
X: 84

MW-18
B: **18**
T: 10
E: 3.6
X: 24

FORMER EPC PIT
EXCAVATED TO 12 FEET

SB-1

MW-9
B: 9
T: 2.8
E: <1.0
X: <3.0

MW-1
NS

MW-2
B: <1.0
T: <1.0
E: <1.0
X: <3.0

MW-3
NS

MW-7
B: <1.0
T: <1.0
E: <1.0
X: <3.0

GP-4

GP-5

GP-6

MW-20
B: 6.9
T: <1.0
E: 12
X: <3.0

MW-8
NS

MW-16
B: 4.2
T: 1.1
E: 2.3
X: <3.0

MW-17
B: **14**
T: <1.0
E: 5.9
X: 12

MW-10
B: **120**
T: 20
E: 8.8
X: 11

MW-11
NS

MW-15
B: **180**
T: 19
E: 19
X: 24

TMW-5

MW-13
B: 3.7
T: <1.0
E: <1.0
X: <3.0

MW-14
B: <1.0
T: <1.0
E: <1.0
X: <3.0

MW-12
B: <1.0
T: <1.0
E: <1.0
X: <3.0

Conoco Phillips MW-2

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

6073
6072
6071
6070

ROM GOOGLE EARTH; DATED 5/2/2013.

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- FENCE
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- GEOPROBE BORING LOCATION
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- SMA BENCHMARK
- SOIL BORING LOCATION

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT

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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/12/2016	CCL	CCL	SRV

TITLE:
GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 23, 2015

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

MWH

Figure No.: 3

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\JOHNSTON FED #4\2015 MAPS\JFed_#4_GECM_2SA_2015.mxd

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

AREA OF FORMER PIT
OR EXCAVATION

FORMER EPC PIT
EXCAVATED TO 12 FEET

MW-4 6021.63
MW-19 6021.79
MW-6 6021.66
MW-18 6021.62
MW-1 6021.69
MW-3 6021.59
MW-7 6021.57
MW-9 6021.80
MW-2 6021.60
MW-20 6021.63
MW-17 6021.48
MW-8 6021.59
MW-10 6021.70
MW-11 6021.64
MW-16 6021.48
MW-15 6021.54
MW-13 6021.83
MW-12 6025.19*
MW-14 6021.81

GP-3 GP-4 GP-5 GP-6

TMW-5

Conoco Phillips MW-2
Conoco Phillips MW-1
Conoco Phillips MW-4
Conoco Phillips MW-3

6073 6072 6071 6070

6021.7 6021.8 6021.6 6021.5

ROM GOOGLE EARTH; DATED 5/2/2013.

LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- FENCE
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- GEOPROBE BORING LOCATION
- MONITORING WELL
- MONITORING WELL WITH MEASUREABLE FREE PRODUCT
- SMA BENCHMARK
- SOIL BORING LOCATION

NOTES:

6021.62 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6021.5 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS FOR MW-12 AND WAS NOT INCLUDED IN THE GROUNDWATER ELEVATION CONTOURS.

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2/12/2016	CCL	CCL	SRV

TITLE:
GROUNDWATER ELEVATION MAP
NOVEMBER 23, 2015

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

MWH

Figure No.: 4

APPENDICES

APPENDIX A – BOREHOLE AND WELL CONSTRUCTION LOGS

APPENDIX B – SOIL SAMPLING ANALYTICAL REPORTS

APPENDIX C – MAY 29, 2015 GROUNDWATER SAMPLING ANALYTICAL REPORT
NOVEMBER 23, 2015 GROUNDWATER SAMPLING ANALYTICAL REPORT

APPENDIX A

MWH

Drilling Log

Soil Boring **SB-1**

Project *Johnston Fed #4* Owner *EPCGPC*

Location *San Juan County, New Mexico* Project Number *10504833.010901*

Surface Elev. *6070.77 ft* North *NA* East *NA*

Top of Casing *NA* Water Level Initial ▽ *49.5ft* 06/30/15 00:00 Static ▼ *NA*

Hole Depth *65.0ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *8.25 in* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *National EWP* Drilling Method *Hollow-Stem Auger* Sand Pack *NA*

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Brad Barton*

Start Date *6/30/2015* Completion Date *6/30/2015* Checked By *S. Varsa*

COMMENTS
Location - About 6 to 7 feet away from MW-1 and about 21 feet from Conoco pipeline.

Bentonite Grout | Bentonite Granules | Grout | Portland Cement | Sand Pack | Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
						Dirt road adjacent.
0	0.0				ML	0-5 feet hand augered. (0 - 5) Silty SAND: dry loose, no hydrocarbon odor brown.
5	0.0 0.0	44%			SW	(5 - 7.5) Well Graded SAND: light brown, loose, dry, no hydrocarbon odor, no to weakly cemented consolidated, some dark brown (silt) coloring in matrix, fine, medium, and coarse sand, subangular to subrounded.
						(7.5 - 10) No Recovery due to compaction.
10	0.0 0.0	50%			SW	(10 - 12.8) Well Graded SAND: continued ⇩minor clay seams in sand matrix, only 1 inch wide, gray, high plasticity clay, increasing cementation with depth.
						(12.8 - 15) No Recovery
15	0.0 0.0	56%			SW	(15 - 18.6) Well Graded SAND: continued, increasing moisture content to slight moist, no hydrocarbon odor, minor orange color in a sand matrix, (iron staining) trace gravels.
						(18.6 - 20) No Recovery
20	0.0	72%			SW	(20 - 21) Well Graded SAND: continued, minor silty sand layers at 22-23 feet bgs.
					SM	(21 - 22.5) Silty SAND: Driller reports harder drilling at 21-22 feet bgs.
	0.0				SW	((22.5 - 24) Well Graded SAND: continued
25	0.0	80%			SW	(24 - 25) No Recovery (25 - 28) Well Graded SAND: continued
						(28 - 30) No Recovery
30		60%				*Continued Next Page*

Drilling Log

MWH

Soil Boring **SB-1**

Project *Johnston Fed #4* Owner *EPCGPC*

Location *San Juan County, New Mexico* Project Number *10504833.010901*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
						Continued
30						
	8.9				SW	(30 - 33.3) Well Graded SAND: continued,slight hydrocarbon odor, increasing coarse sand with depth, increasing moisture with depth, light brown to light gray.
	385.8					⇩Moderate hydrocarbon odor.
						(33.3 - 35) No Recovery
35		66%				
	857.9	SB-1 (36.1-38ft) sample			SW	(35 - 36.9) Well Graded SAND: continued, strong hydrocarbon odor, olive brown.
	1714	SB-1 (38-40ft) sample			CH	(36.9 - 38.9) FAT CLAY: dark brown, strong hydrocarbon odor,moist, high dry strength, high plasticity, no dilatency, medium stiff to stiff.
						(38.9 - 40) No Recovery
40		78%				
	972.2				SM	(40 - 44.5) Silty SAND with Clay: dark brown to olive brown, medium stiff to stiff, trace gravels, slight moist, strong hydrocarbon odor, low plasticity clay, fine to medium sand.
	1365	SB-1 (42.5-45ft) sample				
		90%				(44.5 - 45) No Recovery
45	924.3					(45 - 48.1) Silty SAND with Clay: moist, olive brown, strong hydrocarbon odor.
	567.1				SM	⇩Black hydrocarbon staining present, very moist, clay seam present.
	286.4	SB-1 (46.9-48ft) sample				⧖Water at 49.5 feet bgs.
						(48.1 - 50) No Recovery
50		62%				
	0.7				SW	(50 - 53.4) Well Graded SAND: light brown, minor reddish black staining (iron staining), saturated, no hydrocarbon odor, loose.
	0.1					
						(53.4 - 55) No Recovery
55		68%				
	17.7				SW	(55 - 58.6) Well Graded SAND: continued, trace gravels.
	11.4					Driller reports gravels at about 57 feet bgs.
						(58.6 - 60) No Recovery
60		72%				
	0.0				SW	(60 - 61.8) Well Graded SAND: continued, no hydrocarbon odor ⇩dry, strongly cemented.
						(61.8 - 65) No Recovery
65		36%				
						Bottom of Boring 65 feet bgs.
70						

APPENDIX B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

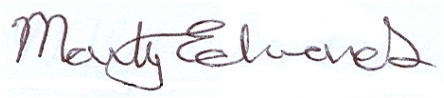
ANALYTICAL REPORT

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

TestAmerica Job ID: 400-107800-1
Client Project/Site: Johnson Fed #4
Revision: 3

For:
MWH Americas Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:
1/25/2016 11:34:32 AM

Marty Edwards, Manager of Project Management
(850)474-1001
marty.edwards@testamericainc.com

Table of Contents

Definitions/Glossary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Case Narrative

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Job ID: 400-107800-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-107800-1

Comments
No additional comments.

Receipt
The samples were received on 7/2/2015 9:13 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

Revised Report
Rev(01): The deliverable was revised to report to the RL.
Rev(02): The deliverable was revised to correct the site name to Johnson Fed #4.
Rev (03): The report was revised to change the analyte descriptions for the 8015 DRO/ORO analysis.

HPLC/IC
Method 300.0: The method blank for preparation batch 400-264279 and analytical batch 400-264758 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The method blank for preparation batch 400-264783 and analytical batch 400-264883 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

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

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

Detection Summary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Client Sample ID: SB-1 (36.1-38) — Lab Sample ID: 400-107800-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	730		45		mg/Kg	500	☼	8015B	Total/NA
Ethylbenzene	2.4		0.045		mg/Kg	50	☼	8021B	Total/NA
Xylenes, Total	11		0.23		mg/Kg	50	☼	8021B	Total/NA
Diesel Range Organics [C10-C28]	160		11		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: SB-1 (38-40) — Lab Sample ID: 400-107800-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	5800		230		mg/Kg	2000	☼	8015B	Total/NA
Benzene	7.8		1.2		mg/Kg	1000	☼	8021B	Total/NA
Ethylbenzene	46		1.2		mg/Kg	1000	☼	8021B	Total/NA
Toluene	110		5.8		mg/Kg	1000	☼	8021B	Total/NA
Xylenes, Total	330		5.8		mg/Kg	1000	☼	8021B	Total/NA
Diesel Range Organics [C10-C28]	320		13		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: SB-1 (42.5-45) — Lab Sample ID: 400-107800-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	3500		110		mg/Kg	1000	☼	8015B	Total/NA
Benzene	7.5		1.1		mg/Kg	1000	☼	8021B	Total/NA
Ethylbenzene	24		1.1		mg/Kg	1000	☼	8021B	Total/NA
Toluene	73		5.7		mg/Kg	1000	☼	8021B	Total/NA
Xylenes, Total	170		5.7		mg/Kg	1000	☼	8021B	Total/NA
Diesel Range Organics [C10-C28]	160		13		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: SB-1 (46.9-48) — Lab Sample ID: 400-107800-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6--C10	1800		44		mg/Kg	500	☼	8015B	Total/NA
Benzene	1.8		0.44		mg/Kg	500	☼	8021B	Total/NA
Ethylbenzene	13		0.44		mg/Kg	500	☼	8021B	Total/NA
Toluene	26		2.2		mg/Kg	500	☼	8021B	Total/NA
Xylenes, Total	86		2.2		mg/Kg	500	☼	8021B	Total/NA
Diesel Range Organics [C10-C28]	250		10		mg/Kg	1	☼	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-107800-1	SB-1 (36.1-38)	Solid	06/30/15 11:40	07/02/15 09:13
400-107800-2	SB-1 (38-40)	Solid	06/30/15 11:45	07/02/15 09:13
400-107800-3	SB-1 (42.5-45)	Solid	06/30/15 11:55	07/02/15 09:13
400-107800-4	SB-1 (46.9-48)	Solid	06/30/15 12:00	07/02/15 09:13

Client Sample ID: SB-1 (36.1-38)

Date Collected: 06/30/15 11:40
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-1

Matrix: Solid
Percent Solids: 94.2

Method: 8015B - GRO by 8015B

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	**730**		45		mg/Kg	☼	07/09/15 12:00	07/10/15 22:29	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*65 - 125*	*07/09/15 12:00*	*07/10/15 22:29*	*500*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.045		0.045		mg/Kg	☼	07/09/15 12:00	07/10/15 01:29	50
Ethylbenzene	**2.4**		0.045		mg/Kg	☼	07/09/15 12:00	07/10/15 01:29	50
Toluene	<0.23		0.23		mg/Kg	☼	07/09/15 12:00	07/10/15 01:29	50
Xylenes, Total	**11**		0.23		mg/Kg	☼	07/09/15 12:00	07/10/15 01:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*120*		*40 - 150*	*07/09/15 12:00*	*07/10/15 01:29*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		11		mg/Kg	☼	07/03/15 13:24	07/06/15 16:05	1
Oil Range Organics (C28-C35)	<11		11		mg/Kg	☼	07/03/15 13:24	07/06/15 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*27 - 151*	*07/03/15 13:24*	*07/06/15 16:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<22		22		mg/Kg	☼		07/13/15 00:00	1

Client Sample ID: SB-1 (38-40)

Date Collected: 06/30/15 11:45
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-2

Matrix: Solid
Percent Solids: 73.0

Method: 8015B - GRO by 8015B

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	5800		230		mg/Kg	☼	07/09/15 12:00	07/11/15 00:47	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*07/09/15 12:00*	*07/11/15 00:47*	*2000*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.8		1.2		mg/Kg	☼	07/09/15 12:00	07/10/15 22:56	1000
Ethylbenzene	46		1.2		mg/Kg	☼	07/09/15 12:00	07/10/15 22:56	1000
Toluene	110		5.8		mg/Kg	☼	07/09/15 12:00	07/10/15 22:56	1000
Xylenes, Total	330		5.8		mg/Kg	☼	07/09/15 12:00	07/10/15 22:56	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*85*		*40 - 150*	*07/09/15 12:00*	*07/10/15 22:56*	*1000*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	320		13		mg/Kg	☼	07/03/15 13:24	07/06/15 16:15	1
Oil Range Organics (C28-C35)	<13		13		mg/Kg	☼	07/03/15 13:24	07/06/15 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*27 - 151*	*07/03/15 13:24*	*07/06/15 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<28		28		mg/Kg	☼		07/13/15 00:23	1

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Client Sample ID: SB-1 (42.5-45)
Date Collected: 06/30/15 11:55
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-3
Matrix: Solid
Percent Solids: 75.4

Method: 8015B - GRO by 8015B

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	3500		110		mg/Kg	☼	07/09/15 12:00	07/10/15 23:24	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*07/09/15 12:00*	*07/10/15 23:24*	*1000*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.5		1.1		mg/Kg	☼	07/09/15 12:00	07/10/15 23:24	1000
Ethylbenzene	24		1.1		mg/Kg	☼	07/09/15 12:00	07/10/15 23:24	1000
Toluene	73		5.7		mg/Kg	☼	07/09/15 12:00	07/10/15 23:24	1000
Xylenes, Total	170		5.7		mg/Kg	☼	07/09/15 12:00	07/10/15 23:24	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*88*		*40 - 150*	*07/09/15 12:00*	*07/10/15 23:24*	*1000*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		13		mg/Kg	☼	07/03/15 13:24	07/06/15 16:25	1
Oil Range Organics (C28-C35)	<13		13		mg/Kg	☼	07/03/15 13:24	07/06/15 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*27 - 151*	*07/03/15 13:24*	*07/06/15 16:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<27		27		mg/Kg	☼		07/14/15 00:55	1

Client Sample ID: SB-1 (46.9-48)

Date Collected: 06/30/15 12:00
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-4

Matrix: Solid
Percent Solids: 93.4

Method: 8015B - GRO by 8015B

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	1800		44		mg/Kg	☼	07/09/15 12:00	07/10/15 23:51	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*65 - 125*	*07/09/15 12:00*	*07/10/15 23:51*	*500*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.8		0.44		mg/Kg	☼	07/09/15 12:00	07/10/15 23:51	500
Ethylbenzene	13		0.44		mg/Kg	☼	07/09/15 12:00	07/10/15 23:51	500
Toluene	26		2.2		mg/Kg	☼	07/09/15 12:00	07/10/15 23:51	500
Xylenes, Total	86		2.2		mg/Kg	☼	07/09/15 12:00	07/10/15 23:51	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*87*		*40 - 150*	*07/09/15 12:00*	*07/10/15 23:51*	*500*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		10		mg/Kg	☼	07/03/15 13:24	07/06/15 16:34	1
Oil Range Organics (C28-C35)	<10		10		mg/Kg	☼	07/03/15 13:24	07/06/15 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*27 - 151*	*07/03/15 13:24*	*07/06/15 16:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<21		21		mg/Kg	☼		07/14/15 01:18	1

QC Association Summary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

GC VOA

Analysis Batch: 264207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107718-B-1-B MS	Matrix Spike	Total/NA	Solid	8021B	264276
400-107718-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	264276
400-107800-1	SB-1 (36.1-38)	Total/NA	Solid	8021B	264276
400-107800-2	SB-1 (38-40)	Total/NA	Solid	8021B	264276
400-107800-3	SB-1 (42.5-45)	Total/NA	Solid	8021B	264276
400-107800-4	SB-1 (46.9-48)	Total/NA	Solid	8021B	264276
LCS 400-264276/2-A	Lab Control Sample	Total/NA	Solid	8021B	264276
MB 400-264276/1-A	Method Blank	Total/NA	Solid	8021B	264276

Prep Batch: 264276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107718-B-1-B MS	Matrix Spike	Total/NA	Solid	5035	
400-107718-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
400-107718-B-1-D MS	Matrix Spike	Total/NA	Solid	5035	
400-107718-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
400-107800-1	SB-1 (36.1-38)	Total/NA	Solid	5035	
400-107800-2	SB-1 (38-40)	Total/NA	Solid	5035	
400-107800-3	SB-1 (42.5-45)	Total/NA	Solid	5035	
400-107800-4	SB-1 (46.9-48)	Total/NA	Solid	5035	
LCS 400-264276/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 400-264276/3-A	Lab Control Sample	Total/NA	Solid	5035	
MB 400-264276/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 264406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107718-B-1-D MS	Matrix Spike	Total/NA	Solid	8021B	264276
400-107718-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	264276
400-107800-1	SB-1 (36.1-38)	Total/NA	Solid	8015B	264276
400-107800-2	SB-1 (38-40)	Total/NA	Solid	8015B	264276
400-107800-3	SB-1 (42.5-45)	Total/NA	Solid	8015B	264276
400-107800-4	SB-1 (46.9-48)	Total/NA	Solid	8015B	264276
LCS 400-264276/3-A	Lab Control Sample	Total/NA	Solid	8021B	264276
MB 400-264276/1-A	Method Blank	Total/NA	Solid	8021B	264276

GC Semi VOA

Prep Batch: 263607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107800-1	SB-1 (36.1-38)	Total/NA	Solid	3546	
400-107800-2	SB-1 (38-40)	Total/NA	Solid	3546	
400-107800-3	SB-1 (42.5-45)	Total/NA	Solid	3546	
400-107800-4	SB-1 (46.9-48)	Total/NA	Solid	3546	
400-107823-A-2-A MS	Matrix Spike	Total/NA	Solid	3546	
400-107823-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 400-263607/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 400-263607/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 263766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107800-1	SB-1 (36.1-38)	Total/NA	Solid	8015B	263607

GC Semi VOA (Continued)

Analysis Batch: 263766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107800-2	SB-1 (38-40)	Total/NA	Solid	8015B	263607
400-107800-3	SB-1 (42.5-45)	Total/NA	Solid	8015B	263607
400-107800-4	SB-1 (46.9-48)	Total/NA	Solid	8015B	263607
400-107823-A-2-A MS	Matrix Spike	Total/NA	Solid	8015B	263607
400-107823-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	263607
LCS 400-263607/2-A	Lab Control Sample	Total/NA	Solid	8015B	263607
MB 400-263607/1-A	Method Blank	Total/NA	Solid	8015B	263607

HPLC/IC

Leach Batch: 264279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107800-1	SB-1 (36.1-38)	Soluble	Solid	DI Leach	
400-107800-2	SB-1 (38-40)	Soluble	Solid	DI Leach	
LCS 400-264279/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-264279/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
MB 400-264279/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 264758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107800-1	SB-1 (36.1-38)	Soluble	Solid	300.0	264279
400-107800-2	SB-1 (38-40)	Soluble	Solid	300.0	264279
LCS 400-264279/2-A	Lab Control Sample	Soluble	Solid	300.0	264279
LCSD 400-264279/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	264279
MB 400-264279/1-A	Method Blank	Soluble	Solid	300.0	264279

Leach Batch: 264783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107718-B-1-J MS	Matrix Spike	Soluble	Solid	DI Leach	
400-107718-B-1-K MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
400-107800-3	SB-1 (42.5-45)	Soluble	Solid	DI Leach	
400-107800-4	SB-1 (46.9-48)	Soluble	Solid	DI Leach	
LCS 400-264783/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-264783/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
MB 400-264783/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 264883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107718-B-1-J MS	Matrix Spike	Soluble	Solid	300.0	264783
400-107718-B-1-K MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	264783
400-107800-3	SB-1 (42.5-45)	Soluble	Solid	300.0	264783
400-107800-4	SB-1 (46.9-48)	Soluble	Solid	300.0	264783
LCS 400-264783/2-A	Lab Control Sample	Soluble	Solid	300.0	264783
LCSD 400-264783/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	264783
MB 400-264783/1-A	Method Blank	Soluble	Solid	300.0	264783

QC Association Summary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

General Chemistry

Analysis Batch: 263966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107800-1	SB-1 (36.1-38)	Total/NA	Solid	Moisture	
400-107800-1 DU	SB-1 (36.1-38)	Total/NA	Solid	Moisture	
400-107800-2	SB-1 (38-40)	Total/NA	Solid	Moisture	
400-107800-3	SB-1 (42.5-45)	Total/NA	Solid	Moisture	
400-107800-4	SB-1 (46.9-48)	Total/NA	Solid	Moisture	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-264276/1-A
Matrix: Solid
Analysis Batch: 264207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 264276

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.050		0.050		mg/Kg		07/09/15 12:00	07/09/15 16:45	50
Ethylbenzene	<0.050		0.050		mg/Kg		07/09/15 12:00	07/09/15 16:45	50
Gasoline Range Organics (GRO) C6--C10	<5.0		5.0		mg/Kg		07/09/15 12:00	07/09/15 16:45	50
Toluene	<0.25		0.25		mg/Kg		07/09/15 12:00	07/09/15 16:45	50
Xylenes, Total	<0.25		0.25		mg/Kg		07/09/15 12:00	07/09/15 16:45	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*	*07/09/15 12:00*	*07/09/15 16:45*	*50*
a,a,a-Trifluorotoluene (pid)	*102*		*40 - 150*	*07/09/15 12:00*	*07/09/15 16:45*	*50*

Lab Sample ID: LCS 400-264276/2-A
Matrix: Solid
Analysis Batch: 264207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 264276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			2.50	3.14		mg/Kg		126	74 - 127		
Ethylbenzene			2.50	3.10		mg/Kg		124	79 - 131		
Toluene			2.50	3.14		mg/Kg		125	76 - 127		
Xylenes, Total			7.50	9.43		mg/Kg		126	80 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*104*		*40 - 150*

Lab Sample ID: LCS 400-264276/3-A
Matrix: Solid
Analysis Batch: 264406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 264276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) C6--C10			50.0	62.0		mg/Kg		124	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*

Lab Sample ID: 400-107718-B-1-B MS
Matrix: Solid
Analysis Batch: 264207

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 264276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	26.2		2.46	3.18		mg/Kg	☼	129	10 - 150		
Ethylbenzene	90.4		2.46	2.94		mg/Kg	☼	116	10 - 150		
Toluene	94.4		2.46	3.10		mg/Kg	☼	122	10 - 150		
Xylenes, Total	Missing Input		7.38	10.1		mg/Kg	☼	NaN	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*106*		*40 - 150*

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

Lab Sample ID: 400-107718-B-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 264207 — **Prep Batch: 264276**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	26.2		2.46	2.50		mg/Kg	☼	102	10 - 150	24	34
Ethylbenzene	90.4		2.46	1.78		mg/Kg	☼	69	10 - 150	49	66
Toluene	94.4		2.46	2.21		mg/Kg	☼	86	10 - 150	33	44
Xylenes, Total	Missing Input		7.38	6.76		mg/Kg	☼	NaN	50 - 150	NC	46

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*102*		*40 - 150*

Lab Sample ID: 400-107718-B-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 264406 — **Prep Batch: 264276**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) C6--C10	88		49.2	121		mg/Kg	☼	66	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*92*		*65 - 125*

Lab Sample ID: 400-107718-B-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 264406 — **Prep Batch: 264276**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) C6--C10	88		49.2	113		mg/Kg	☼	50	10 - 150	7	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-263607/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 263766 — **Prep Batch: 263607**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<10		10		mg/Kg		07/03/15 13:24	07/06/15 14:47	1
Oil Range Organics (C28-C35)	<10		10		mg/Kg		07/03/15 13:24	07/06/15 14:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*27 - 151*	*07/03/15 13:24*	*07/06/15 14:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 400-263607/2-A
Matrix: Solid
Analysis Batch: 263766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			334	300		mg/Kg		90	63 - 153		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*86*		*27 - 151*

Lab Sample ID: 400-107823-A-2-A MS
Matrix: Solid
Analysis Batch: 263766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 263607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	<15		519	452		mg/Kg	☼	85	62 - 204		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*102*		*27 - 151*

Lab Sample ID: 400-107823-A-2-B MSD
Matrix: Solid
Analysis Batch: 263766

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 263607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	<15		511	467		mg/Kg	☼	89	62 - 204	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*95*		*27 - 151*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-264279/1-A
Matrix: Solid
Analysis Batch: 264758

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20		mg/Kg			07/12/15 13:44	1

Lab Sample ID: LCS 400-264279/2-A
Matrix: Solid
Analysis Batch: 264758

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	98.9		mg/Kg		99	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-264279/3-A
Matrix: Solid
Analysis Batch: 264758

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	99.0		mg/Kg		99	80 - 120	0	15

Lab Sample ID: MB 400-264783/1-A
Matrix: Solid
Analysis Batch: 264883

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20		mg/Kg			07/13/15 18:27	1

Lab Sample ID: LCS 400-264783/2-A
Matrix: Solid
Analysis Batch: 264883

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	96.4		mg/Kg		96	80 - 120		

Lab Sample ID: LCSD 400-264783/3-A
Matrix: Solid
Analysis Batch: 264883

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	96.7		mg/Kg		97	80 - 120	0	15

Lab Sample ID: 400-107718-B-1-J MS
Matrix: Solid
Analysis Batch: 264883

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	<19		99.2	108		mg/Kg		94	80 - 120		

Lab Sample ID: 400-107718-B-1-K MSD
Matrix: Solid
Analysis Batch: 264883

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<19		97.7	111		mg/Kg		98	80 - 120	3	15

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Client Sample ID: SB-1 (36.1-38)
Date Collected: 06/30/15 11:40
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			263966	07/07/15 16:29	TMP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-1 (36.1-38)
Date Collected: 06/30/15 11:40
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-1
Matrix: Solid
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.87 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8015B		500	5.87 g	5.0 g	264406	07/10/15 22:29	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.87 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8021B		50	5.87 g	5.0 g	264207	07/10/15 01:29	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.04 g	2.0 mL	263607	07/03/15 13:24	VC1	TAL PEN
Total/NA	Analysis	8015B		1	15.04 g	2.0 mL	263766	07/06/15 16:05	IDR	TAL PEN
	Instrument ID: WALLE									
Soluble	Leach	DI Leach			2.42 g	50 mL	264279	07/09/15 15:11	TAJ	TAL PEN
Soluble	Analysis	300.0		1	1 mL		264758	07/13/15 00:00	TAJ	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-1 (38-40)
Date Collected: 06/30/15 11:45
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			263966	07/07/15 16:29	TMP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-1 (38-40)
Date Collected: 06/30/15 11:45
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-2
Matrix: Solid
Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.91 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8015B		2000	5.91 g	5.0 g	264406	07/11/15 00:47	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.91 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8021B		1000	5.91 g	5.0 g	264207	07/10/15 22:56	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.34 g	2.0 mL	263607	07/03/15 13:24	VC1	TAL PEN
Total/NA	Analysis	8015B		1	15.34 g	2.0 mL	263766	07/06/15 16:15	IDR	TAL PEN
	Instrument ID: WALLE									

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Client Sample ID: SB-1 (38-40)

Lab Sample ID: 400-107800-2
Date Collected: 06/30/15 11:45
Matrix: Solid
Date Received: 07/02/15 09:13
Percent Solids: 73.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.49 g	50 mL	264279	07/09/15 15:11	TAJ	TAL PEN
Soluble	Analysis	300.0		1	1 mL		264758	07/13/15 00:23	TAJ	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-1 (42.5-45)

Lab Sample ID: 400-107800-3
Date Collected: 06/30/15 11:55
Matrix: Solid
Date Received: 07/02/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			263966	07/07/15 16:29	TMP	TAL PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB-1 (42.5-45)

Lab Sample ID: 400-107800-3
Date Collected: 06/30/15 11:55
Matrix: Solid
Date Received: 07/02/15 09:13
Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.78 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8015B		1000	5.78 g	5.0 g	264406	07/10/15 23:24	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			5.78 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8021B		1000	5.78 g	5.0 g	264207	07/10/15 23:24	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.32 g	2.0 mL	263607	07/03/15 13:24	VC1	TAL PEN
Total/NA	Analysis	8015B		1	15.32 g	2.0 mL	263766	07/06/15 16:25	IDR	TAL PEN
	Instrument ID: WALLE									
Soluble	Leach	DI Leach			2.50 g	50 mL	264783	07/13/15 16:28	TAJ	TAL PEN
Soluble	Analysis	300.0		1	1 mL		264883	07/14/15 00:55	TAJ	TAL PEN
	Instrument ID: IC2									

Client Sample ID: SB-1 (46.9-48)

Lab Sample ID: 400-107800-4
Date Collected: 06/30/15 12:00
Matrix: Solid
Date Received: 07/02/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			263966	07/07/15 16:29	TMP	TAL PEN
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Client Sample ID: SB-1 (46.9-48)

Date Collected: 06/30/15 12:00
Date Received: 07/02/15 09:13

Lab Sample ID: 400-107800-4

Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.05 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8015B		500	6.05 g	5.0 g	264406	07/10/15 23:51	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	5035			6.05 g	5.0 g	264276	07/09/15 12:00	GRK	TAL PEN
Total/NA	Analysis	8021B		500	6.05 g	5.0 g	264207	07/10/15 23:51	GRK	TAL PEN
	Instrument ID: CH_RITA									
Total/NA	Prep	3546			15.47 g	2.0 mL	263607	07/03/15 13:24	VC1	TAL PEN
Total/NA	Analysis	8015B		1	15.47 g	2.0 mL	263766	07/06/15 16:34	IDR	TAL PEN
	Instrument ID: WALLE									
Soluble	Leach	DI Leach			2.53 g	50 mL	264783	07/13/15 16:28	TAJ	TAL PEN
Soluble	Analysis	300.0		1	1 mL		264883	07/14/15 01:18	TAJ	TAL PEN
	Instrument ID: IC2									

Laboratory References:

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

Certification Summary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	01-31-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-15 *
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: MWH Americas Inc
Project/Site: Johnson Fed #4

TestAmerica Job ID: 400-107800-1

Method	Method Description	Protocol	Laboratory
8015B	GRO by 8015B	SW846	TAL PEN
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brad Barter	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-46367-22019.1
Client Contact: ~~Christopher Lee~~ Brad Barter	Phone: 316 305 2789	E-Mail: marty.edwards@testamericainc.com		Page: Page 1 of 1
Company: MWH Americas Inc				Job #:
Address: 1560 Broadway Suite 1800	Due Date Requested:			
City: Denver	TAT Requested (days): Normal			
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: christopher.c.lee@mwhglobal.com	WO#: ~~ARF #~~ ERG-MWH-10-07-14-CW0-61			
Project Name: Fed #4	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

400-107800 COC

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO, 9056_ORGFM_28D	8021B - 8021 BTEX/ 8015 GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	X	
SB-1 (36.1-38)	6/30/15	1140	G	Solid	N	N	1	1		per ARF
SB-1 (38-40)	6/30/15	1145	G	Solid	N	N	1	1		
SB-1 (42.5-45)	6/30/15	1155	G	Solid	N	N	1	1		
SB-1 (46.9-48)	6/30/15	1200	G	Solid	N	N	1	1		
				~~Solid~~						
				~~Solid~~						
				~~Solid~~						
				~~Solid~~						

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

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

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

Special Instructions/QC Requirements: Per ARF

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Brad Barter	Date/Time: 7/1/15 0900	Company MWH	Received by: Fed Ex office	Date/Time: 7/1/15 0900	Company Fed Ex
Relinquished by: Fed Ex	Date/Time: 7/2/15	Company Fed Ex	Received by:	Date/Time: 7/2/15 0913	Company TA

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: IR 5 1.6°C

1/25/2016

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-107800-1

Login Number: 107800
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6°C IR-5
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

envirotech

Bill of Lading

MANIFEST # 52160
GENERATOR El Paso CGP
POINT OF ORIGIN Johnston Fed #4
TRANSPORTER Sierra Oil Field
DATE 7-1-15 JOB # 14073-0003

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII	cont. Soil	M-4	—	4	—	22	1520	Jeremy Kelley
					4				

RESULTS			LANDFARM EMPLOYEE	NOTES
< 325	CHLORIDE TEST	1	EL	4 BBL'S DROPED OFF ICCO to BE DUMPED AND DECON'D
	PAINT FILTER TEST	1	Certification of above receival & placement	

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

Generator Onsite Contact _____ Phone _____

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

APPENDIX D

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

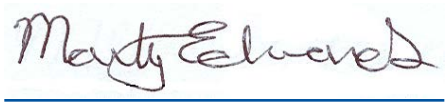
ANALYTICAL REPORT

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

TestAmerica Job ID: 400-106334-1
Client Project/Site: NM- GW Pits, Johnston Fed #4

For:
MWH Americas Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:
6/15/2015 5:32:51 PM

Marty Edwards, Manager of Project Management
(850)474-1001
marty.edwards@testamericainc.com

Table of Contents

Definitions/Glossary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Qualifiers

GC 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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Job ID: 400-106334-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-106334-1

Comments
No additional comments.

Receipt
The samples were received on 5/30/2015 9:13 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5º C.

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

Detection Summary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-1 — Lab Sample ID: 400-106334-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1600		50	28	ug/L	50		8021B	Total/NA
Ethylbenzene	220		50	32	ug/L	50		8021B	Total/NA
Toluene	4000		250	49	ug/L	50		8021B	Total/NA
Xylenes, Total	2400		250	85	ug/L	50		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-2 — Lab Sample ID: 400-106334-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.63	J	1.0	0.56	ug/L	1		8021B	Total/NA
Xylenes, Total	2.6	J	5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-4 — Lab Sample ID: 400-106334-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.3	J	5.0	0.98	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-6 — Lab Sample ID: 400-106334-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		2.0	1.1	ug/L	2		8021B	Total/NA
Ethylbenzene	210		2.0	1.3	ug/L	2		8021B	Total/NA
Toluene	4.8	J	10	2.0	ug/L	2		8021B	Total/NA
Xylenes, Total	86		10	3.4	ug/L	2		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-7 — Lab Sample ID: 400-106334-5

No Detections.

Client Sample ID: JOHNSTON FED #4 MW-9 — Lab Sample ID: 400-106334-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	15		2.0	1.1	ug/L	2		8021B	Total/NA
Ethylbenzene	6.0		2.0	1.3	ug/L	2		8021B	Total/NA
Toluene	8.4	J	10	2.0	ug/L	2		8021B	Total/NA
Xylenes, Total	21		10	3.4	ug/L	2		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-10 — Lab Sample ID: 400-106334-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		1.0	0.56	ug/L	1		8021B	Total/NA
Ethylbenzene	31		1.0	0.64	ug/L	1		8021B	Total/NA
Toluene	8.5		5.0	0.98	ug/L	1		8021B	Total/NA
Xylenes, Total	13		5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-12 — Lab Sample ID: 400-106334-8

No Detections.

Client Sample ID: JOHNSTON FED #4 MW-13 — Lab Sample ID: 400-106334-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-13 (Continued) — Lab Sample ID: 400-106334-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.1		1.0	0.56	ug/L	1		8021B	Total/NA
Ethylbenzene	0.81	J	1.0	0.64	ug/L	1		8021B	Total/NA
Xylenes, Total	2.4	J	5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-14 — Lab Sample ID: 400-106334-10

No Detections.

Client Sample ID: JOHNSTON FED #4 MW-15 — Lab Sample ID: 400-106334-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3200		20	11	ug/L	20		8021B	Total/NA
Ethylbenzene	410		20	13	ug/L	20		8021B	Total/NA
Toluene	1500		100	20	ug/L	20		8021B	Total/NA
Xylenes, Total	1700		100	34	ug/L	20		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-16 — Lab Sample ID: 400-106334-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	54		1.0	0.56	ug/L	1		8021B	Total/NA
Ethylbenzene	22		1.0	0.64	ug/L	1		8021B	Total/NA
Toluene	15		5.0	0.98	ug/L	1		8021B	Total/NA
Xylenes, Total	24		5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-17 — Lab Sample ID: 400-106334-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.7		1.0	0.56	ug/L	1		8021B	Total/NA
Ethylbenzene	3.4		1.0	0.64	ug/L	1		8021B	Total/NA
Toluene	0.98	J	5.0	0.98	ug/L	1		8021B	Total/NA
Xylenes, Total	16		5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-18 — Lab Sample ID: 400-106334-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		1.0	0.56	ug/L	1		8021B	Total/NA
Ethylbenzene	2.8		1.0	0.64	ug/L	1		8021B	Total/NA
Toluene	7.2		5.0	0.98	ug/L	1		8021B	Total/NA
Xylenes, Total	16		5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-19 — Lab Sample ID: 400-106334-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.7		1.0	0.56	ug/L	1		8021B	Total/NA
Ethylbenzene	1.3		1.0	0.64	ug/L	1		8021B	Total/NA
Xylenes, Total	2.6	J	5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 MW-20 — Lab Sample ID: 400-106334-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0	0.56	ug/L	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-20 (Continued) — Lab Sample ID: 400-106334-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	10		1.0	0.64	ug/L	1		8021B	Total/NA
Toluene	3.7	J	5.0	0.98	ug/L	1		8021B	Total/NA
Xylenes, Total	6.3		5.0	1.7	ug/L	1		8021B	Total/NA

Client Sample ID: JOHNSTON FED #4 TRIP BLANK — Lab Sample ID: 400-106334-17

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-106334-1	JOHNSTON FED #4 MW-1	Water	05/29/15 11:20	05/30/15 09:13
400-106334-2	JOHNSTON FED #4 MW-2	Water	05/29/15 10:10	05/30/15 09:13
400-106334-3	JOHNSTON FED #4 MW-4	Water	05/29/15 09:40	05/30/15 09:13
400-106334-4	JOHNSTON FED #4 MW-6	Water	05/29/15 11:10	05/30/15 09:13
400-106334-5	JOHNSTON FED #4 MW-7	Water	05/29/15 11:05	05/30/15 09:13
400-106334-6	JOHNSTON FED #4 MW-9	Water	05/29/15 11:00	05/30/15 09:13
400-106334-7	JOHNSTON FED #4 MW-10	Water	05/29/15 10:55	05/30/15 09:13
400-106334-8	JOHNSTON FED #4 MW-12	Water	05/29/15 09:35	05/30/15 09:13
400-106334-9	JOHNSTON FED #4 MW-13	Water	05/29/15 10:50	05/30/15 09:13
400-106334-10	JOHNSTON FED #4 MW-14	Water	05/29/15 09:30	05/30/15 09:13
400-106334-11	JOHNSTON FED #4 MW-15	Water	05/29/15 10:05	05/30/15 09:13
400-106334-12	JOHNSTON FED #4 MW-16	Water	05/29/15 10:00	05/30/15 09:13
400-106334-13	JOHNSTON FED #4 MW-17	Water	05/29/15 09:50	05/30/15 09:13
400-106334-14	JOHNSTON FED #4 MW-18	Water	05/29/15 10:30	05/30/15 09:13
400-106334-15	JOHNSTON FED #4 MW-19	Water	05/29/15 10:15	05/30/15 09:13
400-106334-16	JOHNSTON FED #4 MW-20	Water	05/29/15 10:20	05/30/15 09:13
400-106334-17	JOHNSTON FED #4 TRIP BLANK	Water	05/29/15 09:00	05/30/15 09:13

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-1
Date Collected: 05/29/15 11:20
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1600		50	28	ug/L			06/05/15 10:22	50
Ethylbenzene	220		50	32	ug/L			06/05/15 10:22	50
Toluene	4000		250	49	ug/L			06/05/15 10:22	50
Xylenes, Total	2400		250	85	ug/L			06/05/15 10:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*78 - 124*		*06/05/15 10:22*	*50*

Client Sample ID: JOHNSTON FED #4 MW-2

Lab Sample ID: 400-106334-2

Date Collected: 05/29/15 10:10
Matrix: Water
Date Received: 05/30/15 09:13

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.63**	**J**	1.0	0.56	ug/L			06/05/15 10:54	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 10:54	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 10:54	1
Xylenes, Total	**2.6**	**J**	5.0	1.7	ug/L			06/05/15 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*		*06/05/15 10:54*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-4
Date Collected: 05/29/15 09:40
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/05/15 11:25	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 11:25	1
Toluene	**1.3**	**J**	5.0	0.98	ug/L			06/05/15 11:25	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/05/15 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*88*		*78 - 124*		*06/05/15 11:25*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-6
Date Collected: 05/29/15 11:10
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		2.0	1.1	ug/L			06/05/15 15:51	2
Ethylbenzene	210		2.0	1.3	ug/L			06/05/15 15:51	2
Toluene	4.8	J	10	2.0	ug/L			06/05/15 15:51	2
Xylenes, Total	86		10	3.4	ug/L			06/05/15 15:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*88*		*78 - 124*		*06/05/15 15:51*	*2*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-7
Date Collected: 05/29/15 11:05
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-5
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/05/15 16:22	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 16:22	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 16:22	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/05/15 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*		*06/05/15 16:22*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-9
Date Collected: 05/29/15 11:00
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15		2.0	1.1	ug/L			06/05/15 16:54	2
Ethylbenzene	6.0		2.0	1.3	ug/L			06/05/15 16:54	2
Toluene	8.4	J	10	2.0	ug/L			06/05/15 16:54	2
Xylenes, Total	21		10	3.4	ug/L			06/05/15 16:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*85*		*78 - 124*		*06/05/15 16:54*	*2*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-10
Date Collected: 05/29/15 10:55
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		1.0	0.56	ug/L			06/05/15 17:26	1
Ethylbenzene	31		1.0	0.64	ug/L			06/05/15 17:26	1
Toluene	8.5		5.0	0.98	ug/L			06/05/15 17:26	1
Xylenes, Total	13		5.0	1.7	ug/L			06/05/15 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*91*		*78 - 124*		*06/05/15 17:26*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-12
Date Collected: 05/29/15 09:35
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/05/15 17:57	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 17:57	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 17:57	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/05/15 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/05/15 17:57*	*1*

Client Sample ID: JOHNSTON FED #4 MW-13

Lab Sample ID: 400-106334-9

Date Collected: 05/29/15 10:50

Matrix: Water

Date Received: 05/30/15 09:13

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.1**		1.0	0.56	ug/L			06/05/15 18:29	1
Ethylbenzene	**0.81**	**J**	1.0	0.64	ug/L			06/05/15 18:29	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 18:29	1
Xylenes, Total	**2.4**	**J**	5.0	1.7	ug/L			06/05/15 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/05/15 18:29*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-14
Date Collected: 05/29/15 09:30
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/05/15 20:04	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 20:04	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 20:04	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/05/15 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/05/15 20:04*	*1*

Client Sample ID: JOHNSTON FED #4 MW-15

Lab Sample ID: 400-106334-11

Date Collected: 05/29/15 10:05

Matrix: Water

Date Received: 05/30/15 09:13

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3200		20	11	ug/L			06/08/15 21:38	20
Ethylbenzene	410		20	13	ug/L			06/08/15 21:38	20
Toluene	1500		100	20	ug/L			06/08/15 21:38	20
Xylenes, Total	1700		100	34	ug/L			06/08/15 21:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*104*		*78 - 124*		*06/08/15 21:38*	*20*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-16
Date Collected: 05/29/15 10:00
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-12
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	54		1.0	0.56	ug/L			06/08/15 22:09	1
Ethylbenzene	22		1.0	0.64	ug/L			06/08/15 22:09	1
Toluene	15		5.0	0.98	ug/L			06/08/15 22:09	1
Xylenes, Total	24		5.0	1.7	ug/L			06/08/15 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*		*06/08/15 22:09*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-17
Date Collected: 05/29/15 09:50
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-13
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.7		1.0	0.56	ug/L			06/05/15 21:39	1
Ethylbenzene	3.4		1.0	0.64	ug/L			06/05/15 21:39	1
Toluene	0.98	J	5.0	0.98	ug/L			06/05/15 21:39	1
Xylenes, Total	16		5.0	1.7	ug/L			06/05/15 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*		*06/05/15 21:39*	*1*

Client Sample ID: JOHNSTON FED #4 MW-18

Lab Sample ID: 400-106334-14

Date Collected: 05/29/15 10:30

Matrix: Water

Date Received: 05/30/15 09:13

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12		1.0	0.56	ug/L			06/05/15 22:10	1
Ethylbenzene	2.8		1.0	0.64	ug/L			06/05/15 22:10	1
Toluene	7.2		5.0	0.98	ug/L			06/05/15 22:10	1
Xylenes, Total	16		5.0	1.7	ug/L			06/05/15 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*102*		*78 - 124*		*06/05/15 22:10*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-19
Date Collected: 05/29/15 10:15
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-15
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.7**		1.0	0.56	ug/L			06/05/15 23:45	1
Ethylbenzene	**1.3**		1.0	0.64	ug/L			06/05/15 23:45	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 23:45	1
Xylenes, Total	**2.6**	**J**	5.0	1.7	ug/L			06/05/15 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/05/15 23:45*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-20
Date Collected: 05/29/15 10:20
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-16
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	28		1.0	0.56	ug/L			06/06/15 00:17	1
Ethylbenzene	10		1.0	0.64	ug/L			06/06/15 00:17	1
Toluene	3.7	J	5.0	0.98	ug/L			06/06/15 00:17	1
Xylenes, Total	6.3		5.0	1.7	ug/L			06/06/15 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*86*		*78 - 124*		*06/06/15 00:17*	*1*

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 TRIP BLANK
Date Collected: 05/29/15 09:00
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-17
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/06/15 01:52	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/06/15 01:52	1
Toluene	<5.0		5.0	0.98	ug/L			06/06/15 01:52	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/06/15 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*78 - 124*		*06/06/15 01:52*	*1*

GC VOA

Analysis Batch: 259941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-106334-1	JOHNSTON FED #4 MW-1	Total/NA	Water	8021B	
400-106334-2	JOHNSTON FED #4 MW-2	Total/NA	Water	8021B	
400-106334-3	JOHNSTON FED #4 MW-4	Total/NA	Water	8021B	
400-106334-4	JOHNSTON FED #4 MW-6	Total/NA	Water	8021B	
400-106334-5	JOHNSTON FED #4 MW-7	Total/NA	Water	8021B	
400-106334-6	JOHNSTON FED #4 MW-9	Total/NA	Water	8021B	
400-106334-7	JOHNSTON FED #4 MW-10	Total/NA	Water	8021B	
400-106334-8	JOHNSTON FED #4 MW-12	Total/NA	Water	8021B	
400-106334-9	JOHNSTON FED #4 MW-13	Total/NA	Water	8021B	
400-106335-A-7 MS	Matrix Spike	Total/NA	Water	8021B	
400-106335-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	
LCS 400-259941/1035	Lab Control Sample	Total/NA	Water	8021B	
MB 400-259941/36	Method Blank	Total/NA	Water	8021B	

Analysis Batch: 260177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-106334-10	JOHNSTON FED #4 MW-14	Total/NA	Water	8021B	
400-106334-13	JOHNSTON FED #4 MW-17	Total/NA	Water	8021B	
400-106334-14	JOHNSTON FED #4 MW-18	Total/NA	Water	8021B	
400-106334-14 MS	JOHNSTON FED #4 MW-18	Total/NA	Water	8021B	
400-106334-14 MSD	JOHNSTON FED #4 MW-18	Total/NA	Water	8021B	
400-106334-15	JOHNSTON FED #4 MW-19	Total/NA	Water	8021B	
400-106334-16	JOHNSTON FED #4 MW-20	Total/NA	Water	8021B	
400-106334-17	JOHNSTON FED #4 TRIP BLANK	Total/NA	Water	8021B	
LCS 400-260177/1001	Lab Control Sample	Total/NA	Water	8021B	
MB 400-260177/2	Method Blank	Total/NA	Water	8021B	

Analysis Batch: 260285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-106334-11	JOHNSTON FED #4 MW-15	Total/NA	Water	8021B	
400-106334-12	JOHNSTON FED #4 MW-16	Total/NA	Water	8021B	
400-106530-B-3 MS	Matrix Spike	Total/NA	Water	8021B	
400-106530-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	
LCS 400-260285/1003	Lab Control Sample	Total/NA	Water	8021B	
MB 400-260285/5	Method Blank	Total/NA	Water	8021B	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-259941/36
Matrix: Water
Analysis Batch: 259941

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/05/15 07:13	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 07:13	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 07:13	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/05/15 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/05/15 07:13*	*1*

Lab Sample ID: LCS 400-259941/1035
Matrix: Water
Analysis Batch: 259941

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.1		ug/L		100	85 - 115
Ethylbenzene	50.0	51.1		ug/L		102	85 - 115
Toluene	50.0	50.7		ug/L		101	85 - 115
Xylenes, Total	150	150		ug/L		100	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*

Lab Sample ID: 400-106335-A-7 MS
Matrix: Water
Analysis Batch: 259941

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	58.9		ug/L		118	44 - 150
Ethylbenzene	<1.0		50.0	60.2		ug/L		120	70 - 142
Toluene	<5.0		50.0	59.1		ug/L		118	69 - 136
Xylenes, Total	<5.0		150	180		ug/L		120	68 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*

Lab Sample ID: 400-106335-A-7 MSD
Matrix: Water
Analysis Batch: 259941

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	55.6		ug/L		111	44 - 150	6	16
Ethylbenzene	<1.0		50.0	55.7		ug/L		111	70 - 142	8	16
Toluene	<5.0		50.0	55.3		ug/L		111	69 - 136	7	16
Xylenes, Total	<5.0		150	164		ug/L		110	68 - 142	9	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*

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

Lab Sample ID: MB 400-260177/2
Matrix: Water
Analysis Batch: 260177

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/05/15 19:32	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/05/15 19:32	1
Toluene	<5.0		5.0	0.98	ug/L			06/05/15 19:32	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/05/15 19:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*78 - 124*		*06/05/15 19:32*	*1*

Lab Sample ID: LCS 400-260177/1001
Matrix: Water
Analysis Batch: 260177

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.5		ug/L		103	85 - 115
Ethylbenzene	50.0	51.7		ug/L		103	85 - 115
Toluene	50.0	51.3		ug/L		103	85 - 115
Xylenes, Total	150	152		ug/L		101	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*

Lab Sample ID: 400-106334-14 MS
Matrix: Water
Analysis Batch: 260177

Client Sample ID: JOHNSTON FED #4 MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	12		50.0	69.9		ug/L		117	44 - 150
Ethylbenzene	2.8		50.0	61.6		ug/L		118	70 - 142
Toluene	7.2		50.0	65.7		ug/L		117	69 - 136
Xylenes, Total	16		150	190		ug/L		116	68 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*

Lab Sample ID: 400-106334-14 MSD
Matrix: Water
Analysis Batch: 260177

Client Sample ID: JOHNSTON FED #4 MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	12		50.0	69.2		ug/L		115	44 - 150	1	16
Ethylbenzene	2.8		50.0	61.0		ug/L		116	70 - 142	1	16
Toluene	7.2		50.0	64.8		ug/L		115	69 - 136	1	16
Xylenes, Total	16		150	188		ug/L		115	68 - 142	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*100*		*78 - 124*

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

Lab Sample ID: MB 400-260285/5
Matrix: Water
Analysis Batch: 260285

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	0.56	ug/L			06/08/15 13:15	1
Ethylbenzene	<1.0		1.0	0.64	ug/L			06/08/15 13:15	1
Toluene	<5.0		5.0	0.98	ug/L			06/08/15 13:15	1
Xylenes, Total	<5.0		5.0	1.7	ug/L			06/08/15 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*78 - 124*		*06/08/15 13:15*	*1*

Lab Sample ID: LCS 400-260285/1003
Matrix: Water
Analysis Batch: 260285

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	49.5		ug/L		99	85 - 115		
Ethylbenzene			50.0	50.3		ug/L		101	85 - 115		
Toluene			50.0	49.6		ug/L		99	85 - 115		
Xylenes, Total			150	150		ug/L		100	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*78 - 124*

Lab Sample ID: 400-106530-B-3 MS
Matrix: Water
Analysis Batch: 260285

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<1.0		50.0	55.6		ug/L		111	44 - 150		
Ethylbenzene	5.4		50.0	61.8		ug/L		113	70 - 142		
Toluene	<5.0		50.0	56.0		ug/L		112	69 - 136		
Xylenes, Total	5.1		150	172		ug/L		112	68 - 142		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*95*		*78 - 124*

Lab Sample ID: 400-106530-B-3 MSD
Matrix: Water
Analysis Batch: 260285

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	56.4		ug/L		113	44 - 150	1	16
Ethylbenzene	5.4		50.0	61.0		ug/L		111	70 - 142	1	16
Toluene	<5.0		50.0	56.1		ug/L		112	69 - 136	0	16
Xylenes, Total	5.1		150	169		ug/L		109	68 - 142	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*96*		*78 - 124*

Lab Chronicle

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-1
Date Collected: 05/29/15 11:20
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		50	5 mL	5 mL	259941	06/05/15 10:22	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-2
Date Collected: 05/29/15 10:10
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	259941	06/05/15 10:54	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-4
Date Collected: 05/29/15 09:40
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	259941	06/05/15 11:25	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-6
Date Collected: 05/29/15 11:10
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		2	5 mL	5 mL	259941	06/05/15 15:51	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-7
Date Collected: 05/29/15 11:05
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	259941	06/05/15 16:22	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-9
Date Collected: 05/29/15 11:00
Date Received: 05/30/15 09:13

Lab Sample ID: 400-106334-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		2	5 mL	5 mL	259941	06/05/15 16:54	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Lab Chronicle

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-10

Lab Sample ID: 400-106334-7
Date Collected: 05/29/15 10:55
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	259941	06/05/15 17:26	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-12

Lab Sample ID: 400-106334-8
Date Collected: 05/29/15 09:35
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	259941	06/05/15 17:57	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-13

Lab Sample ID: 400-106334-9
Date Collected: 05/29/15 10:50
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	259941	06/05/15 18:29	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-14

Lab Sample ID: 400-106334-10
Date Collected: 05/29/15 09:30
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260177	06/05/15 20:04	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-15

Lab Sample ID: 400-106334-11
Date Collected: 05/29/15 10:05
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		20	5 mL	5 mL	260285	06/08/15 21:38	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-16

Lab Sample ID: 400-106334-12
Date Collected: 05/29/15 10:00
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260285	06/08/15 22:09	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Lab Chronicle

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Client Sample ID: JOHNSTON FED #4 MW-17

Lab Sample ID: 400-106334-13
Date Collected: 05/29/15 09:50
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260177	06/05/15 21:39	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-18

Lab Sample ID: 400-106334-14
Date Collected: 05/29/15 10:30
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260177	06/05/15 22:10	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-19

Lab Sample ID: 400-106334-15
Date Collected: 05/29/15 10:15
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260177	06/05/15 23:45	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 MW-20

Lab Sample ID: 400-106334-16
Date Collected: 05/29/15 10:20
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260177	06/06/15 00:17	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: JOHNSTON FED #4 TRIP BLANK

Lab Sample ID: 400-106334-17
Date Collected: 05/29/15 09:00
Matrix: Water
Date Received: 05/30/15 09:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	260177	06/06/15 01:52	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Laboratory References:

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

Certification Summary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-15
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-15
Florida	NELAP	4	E81010	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200041	10-09-15
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	06-30-15 *
Kentucky (UST)	State Program	4	53	06-30-15
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-15
Maryland	State Program	3	233	09-30-15
Massachusetts	State Program	1	M-FL094	06-30-15
Michigan	State Program	5	9912	06-30-15
New Jersey	NELAP	2	FL006	06-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-15
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15
Tennessee	State Program	4	TN02907	06-30-15
Texas	NELAP	6	T104704286-12-5	09-30-15
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-15
West Virginia DEP	State Program	3	136	06-30-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: MWH Americas Inc
Project/Site: NM- GW Pits, Johnston Fed #4

TestAmerica Job ID: 400-106334-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL PEN

Protocol References:

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

Laboratory References:

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

400-106334

SERIAL NUMBER: 80211

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:

BOTTLE ORDER NO.:

ORDER - LOG-IN NO.: C

CLIENT: MWH

ADDRESS: 1560 Broadway Suite 1800 Denver CO 80202

PAGE: 1 OF 2

PROJECT NAME: NM-pits Johnston Fed #4

PROJECT NO.: 400054479

CLIENT PROJECT MANAGER: Steve Varsa

PROJECT LOC. (STATE): NM

SAMPLED BY: Chris Lee/Sarah Gardner

CONTRACT / P.O. NO.:

CLIENT PHONE: 303 291-2239

CLIENT E-MAIL OR FAX: Sarah.Gardner@mwhglobal.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☐ NORMAL ☒ 10 BUSINESS DAYS

☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☒ DISPOSAL BY LAB

☐ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

BTEX - 8021B

400-106334 COC

POSSIBLE HAZARD IDENTIFICATION

☒ NON-HAZARD
△ FLAMMABLE
△ RADIOACTIVE
△ POISON B
△ UNKNOWN
△ OTHER:

NO. OF COOLERS PER SHIPMENT:

SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT

LAB USE ONLY - SAMPLE NUMBER

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION		PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED
5/29/15	1120	Johnston Fed #4	MW-1		X									X				2
5/29/15	1010	Johnston Fed #4	MW-2		X									X				2
5/29/15	940	Johnston Fed #4	MW-4		X									X				2
5/29/15	1110	Johnston Fed #4	MW-6		X									X				2
5/29/15	1105	Johnston Fed #4	MW-7		X									X				2
5/29/15	1100	Johnston Fed #4	MW-9		X									X				2
5/29/15	1055	Johnston Fed #4	MW-10		X									X				2
5/29/15	935	Johnston Fed #4	MW-12		X									X				2
5/29/15	1050	Johnston Fed #4	MW-13		X									X				2
5/29/15	930	Johnston Fed #4	MW-14		X									X				2
5/29/15	1005	Johnston Fed #4	MW-15		X									X				2
5/29/15	1000	Johnston Fed #4	MW-16		X									X				2
5/29/15	950	Johnston Fed #4	MW-17		X									X				2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				5/29/15	1630			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS
	5/30/15	0913	△ YES △ NO		IR6 0.5°C

TAL-8251 (1207)

400-106334

SERIAL NUMBER: 80212

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:

BOTTLE ORDER NO.:

ORDER - LOG-IN NO.: C

CLIENT: MWH

ADDRESS: 1560 Broadway Suite 1800 Denver CO 80202

PAGE: 2 OF: 2

PROJECT NAME: NM-Pit Sites Johnston Fed #4

PROJECT NO.:

CLIENT PROJECT MANAGER: Steve Varsa

PROJECT LOC. (STATE): NM

~~SAMPLED BY~~ Client Phone: 303 291-2239

CONTRACT / P.O. NO.: 4600054709

~~CLIENT PHONE~~ SAMPLED BY: Chrislee/Sarah Gardner

CLIENT E-MAIL OR FAX: sarah.gardner@mwhglobal.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL / NORMAL 10 BUSINESS DAYS

□ 1 DAY □ 2 DAYS □ 3 DAYS □ 5 DAYS □ 20 DAYS (Package) □ OTHER:

SAMPLE DISPOSAL: □ RETURN TO CLIENT / DISPOSAL BY LAB

□ SEE CONTRACT □ OTHER:

REQUESTED ANALYSIS

BTEX-8021B

POSSIBLE HAZARD IDENTIFICATION

X NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT:

SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT

LAB USE ONLY - SAMPLE NUMBER

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION		PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED
5/29/15	1030	Johnston Fed #4	MW-18		X									X				2
5/29/15	1015	Johnston Fed #4	MW-19		X									X				2
5/29/15	1020	Johnston Fed #4	MW-20		X									X				2
5/29/15	900	Johnston Fed #4	TRIP BLANK		X									X				2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Samuel	5/29/15	1630			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	5/30/15	0913	Δ YES Δ NO		IR6 0.5°C

TAL-8251 (1207)

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-106334-1

Login Number: 106334
List Number: 1
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C IR-6
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 400-114406-1
Client Project/Site: Johnston Fed #4

For:
MWH Americas Inc
11153 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Authorized for release by:
12/14/2015 7:54:37 PM

Marty Edwards, Manager of Project Management
(850)474-1001
marty.edwards@testamericainc.com

Table of Contents

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Job ID: 400-114406-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-114406-1

Comments
No additional comments.

Receipt
The samples were received on 11/25/2015 9:29 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

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

Detection Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-2 — Lab Sample ID: 400-114406-1

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-114406-2

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-114406-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	330		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	260		1.0		ug/L	1		8021B	Total/NA
Toluene	21		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	84		3.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 400-114406-4

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 400-114406-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.0		1.0		ug/L	1		8021B	Total/NA
Toluene	2.8		1.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 400-114406-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	8.8		1.0		ug/L	1		8021B	Total/NA
Toluene	20		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	11		3.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 400-114406-7

No Detections.

Client Sample ID: MW-13 — Lab Sample ID: 400-114406-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.7		1.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 400-114406-9

No Detections.

Client Sample ID: MW-15 — Lab Sample ID: 400-114406-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	19		1.0		ug/L	1		8021B	Total/NA
Toluene	19		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	24		3.0		ug/L	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-16 — Lab Sample ID: 400-114406-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.2		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	2.3		1.0		ug/L	1		8021B	Total/NA
Toluene	1.1		1.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 400-114406-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	5.9		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	12		3.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 400-114406-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	18		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	3.6		1.0		ug/L	1		8021B	Total/NA
Toluene	10		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	24		3.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 400-114406-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	67		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	15		1.0		ug/L	1		8021B	Total/NA
Toluene	18		1.0		ug/L	1		8021B	Total/NA
Xylenes, Total	40		3.0		ug/L	1		8021B	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 400-114406-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.9		1.0		ug/L	1		8021B	Total/NA
Ethylbenzene	12		1.0		ug/L	1		8021B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-114406-16

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-114406-1	MW-2	Water	11/23/15 14:00	11/25/15 09:29
400-114406-2	MW-4	Water	11/23/15 13:45	11/25/15 09:29
400-114406-3	MW-6	Water	11/23/15 14:30	11/25/15 09:29
400-114406-4	MW-7	Water	11/23/15 14:35	11/25/15 09:29
400-114406-5	MW-9	Water	11/23/15 14:20	11/25/15 09:29
400-114406-6	MW-10	Water	11/23/15 14:50	11/25/15 09:29
400-114406-7	MW-12	Water	11/23/15 13:30	11/25/15 09:29
400-114406-8	MW-13	Water	11/23/15 13:50	11/25/15 09:29
400-114406-9	MW-14	Water	11/23/15 13:35	11/25/15 09:29
400-114406-10	MW-15	Water	11/23/15 15:00	11/25/15 09:29
400-114406-11	MW-16	Water	11/23/15 14:40	11/25/15 09:29
400-114406-12	MW-17	Water	11/23/15 14:05	11/25/15 09:29
400-114406-13	MW-18	Water	11/23/15 14:10	11/25/15 09:29
400-114406-14	MW-19	Water	11/23/15 14:45	11/25/15 09:29
400-114406-15	MW-20	Water	11/23/15 15:10	11/25/15 09:29
400-114406-16	TRIP BLANK	Water	11/23/15 15:00	11/25/15 09:29

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-2
Date Collected: 11/23/15 14:00
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/02/15 21:01	1
Ethylbenzene	<1.0		1.0		ug/L			12/02/15 21:01	1
Toluene	<1.0		1.0		ug/L			12/02/15 21:01	1
Xylenes, Total	<3.0		3.0		ug/L			12/02/15 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*83*		*50 - 150*		*12/02/15 21:01*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-4
Date Collected: 11/23/15 13:45
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/02/15 21:30	1
Ethylbenzene	<1.0		1.0		ug/L			12/02/15 21:30	1
Toluene	<1.0		1.0		ug/L			12/02/15 21:30	1
Xylenes, Total	<3.0		3.0		ug/L			12/02/15 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*86*		*50 - 150*		*12/02/15 21:30*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-6
Date Collected: 11/23/15 14:30
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-3
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	330		1.0		ug/L			12/03/15 07:15	1
Ethylbenzene	260		1.0		ug/L			12/03/15 07:15	1
Toluene	21		1.0		ug/L			12/03/15 07:15	1
Xylenes, Total	84		3.0		ug/L			12/03/15 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*12/03/15 07:15*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-7
Date Collected: 11/23/15 14:35
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-4
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/02/15 23:57	1
Ethylbenzene	<1.0		1.0		ug/L			12/02/15 23:57	1
Toluene	<1.0		1.0		ug/L			12/02/15 23:57	1
Xylenes, Total	<3.0		3.0		ug/L			12/02/15 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*50 - 150*		*12/02/15 23:57*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-9
Date Collected: 11/23/15 14:20
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-5
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.0**		1.0		ug/L			12/03/15 00:26	1
Ethylbenzene	<1.0		1.0		ug/L			12/03/15 00:26	1
Toluene	**2.8**		1.0		ug/L			12/03/15 00:26	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*50 - 150*		*12/03/15 00:26*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-10
Date Collected: 11/23/15 14:50
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-6
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		1.0		ug/L			12/03/15 00:55	1
Ethylbenzene	8.8		1.0		ug/L			12/03/15 00:55	1
Toluene	20		1.0		ug/L			12/03/15 00:55	1
Xylenes, Total	11		3.0		ug/L			12/03/15 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*84*		*50 - 150*		*12/03/15 00:55*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-12
Date Collected: 11/23/15 13:30
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/03/15 01:25	1
Ethylbenzene	<1.0		1.0		ug/L			12/03/15 01:25	1
Toluene	<1.0		1.0		ug/L			12/03/15 01:25	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*12/03/15 01:25*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-13
Date Collected: 11/23/15 13:50
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.7**		1.0		ug/L			12/03/15 01:54	1
Ethylbenzene	<1.0		1.0		ug/L			12/03/15 01:54	1
Toluene	<1.0		1.0		ug/L			12/03/15 01:54	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*12/03/15 01:54*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-14
Date Collected: 11/23/15 13:35
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/03/15 02:23	1
Ethylbenzene	<1.0		1.0		ug/L			12/03/15 02:23	1
Toluene	<1.0		1.0		ug/L			12/03/15 02:23	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*12/03/15 02:23*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-15
Date Collected: 11/23/15 15:00
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	180		1.0		ug/L			12/03/15 02:52	1
Ethylbenzene	19		1.0		ug/L			12/03/15 02:52	1
Toluene	19		1.0		ug/L			12/03/15 02:52	1
Xylenes, Total	24		3.0		ug/L			12/03/15 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*12/03/15 02:52*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-16
Date Collected: 11/23/15 14:40
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-11
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.2		1.0		ug/L			12/03/15 03:22	1
Ethylbenzene	2.3		1.0		ug/L			12/03/15 03:22	1
Toluene	1.1		1.0		ug/L			12/03/15 03:22	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*50 - 150*		*12/03/15 03:22*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-17
Date Collected: 11/23/15 14:05
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-12
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**14**		1.0		ug/L			12/03/15 03:51	1
Ethylbenzene	**5.9**		1.0		ug/L			12/03/15 03:51	1
Toluene	<1.0		1.0		ug/L			12/03/15 03:51	1
Xylenes, Total	**12**		3.0		ug/L			12/03/15 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*12/03/15 03:51*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-18
Date Collected: 11/23/15 14:10
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-13
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18		1.0		ug/L			12/03/15 05:48	1
Ethylbenzene	3.6		1.0		ug/L			12/03/15 05:48	1
Toluene	10		1.0		ug/L			12/03/15 05:48	1
Xylenes, Total	24		3.0		ug/L			12/03/15 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*12/03/15 05:48*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-19
Date Collected: 11/23/15 14:45
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-14
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	67		1.0		ug/L			12/03/15 06:17	1
Ethylbenzene	15		1.0		ug/L			12/03/15 06:17	1
Toluene	18		1.0		ug/L			12/03/15 06:17	1
Xylenes, Total	40		3.0		ug/L			12/03/15 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*12/03/15 06:17*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-20
Date Collected: 11/23/15 15:10
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-15
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.9**		1.0		ug/L			12/03/15 06:46	1
Ethylbenzene	**12**		1.0		ug/L			12/03/15 06:46	1
Toluene	<1.0		1.0		ug/L			12/03/15 06:46	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*12/03/15 06:46*	*1*

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: TRIP BLANK
Date Collected: 11/23/15 15:00
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-16
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/02/15 23:28	1
Ethylbenzene	<1.0		1.0		ug/L			12/02/15 23:28	1
Toluene	<1.0		1.0		ug/L			12/02/15 23:28	1
Xylenes, Total	<3.0		3.0		ug/L			12/02/15 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*83*		*50 - 150*		*12/02/15 23:28*	*1*

QC Association Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

GC VOA

Analysis Batch: 303784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-114406-1	MW-2	Total/NA	Water	8021B	
400-114406-2	MW-4	Total/NA	Water	8021B	
400-114406-3	MW-6	Total/NA	Water	8021B	
400-114406-4	MW-7	Total/NA	Water	8021B	
400-114406-5	MW-9	Total/NA	Water	8021B	
400-114406-6	MW-10	Total/NA	Water	8021B	
400-114406-7	MW-12	Total/NA	Water	8021B	
400-114406-8	MW-13	Total/NA	Water	8021B	
400-114406-9	MW-14	Total/NA	Water	8021B	
400-114406-10	MW-15	Total/NA	Water	8021B	
400-114406-11	MW-16	Total/NA	Water	8021B	
400-114406-12	MW-17	Total/NA	Water	8021B	
400-114406-13	MW-18	Total/NA	Water	8021B	
400-114406-14	MW-19	Total/NA	Water	8021B	
400-114406-15	MW-20	Total/NA	Water	8021B	
400-114406-16	TRIP BLANK	Total/NA	Water	8021B	
LCS 490-303784/3	Lab Control Sample	Total/NA	Water	8021B	
LCS 490-303784/43	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-303784/4	Lab Control Sample Dup	Total/NA	Water	8021B	
LCSD 490-303784/44	Lab Control Sample Dup	Total/NA	Water	8021B	
MB 490-303784/10	Method Blank	Total/NA	Water	8021B	
MB 490-303784/23	Method Blank	Total/NA	Water	8021B	
MB 490-303784/36	Method Blank	Total/NA	Water	8021B	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 490-303784/10
Matrix: Water
Analysis Batch: 303784

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/02/15 16:36	1
Ethylbenzene	<1.0		1.0		ug/L			12/02/15 16:36	1
Toluene	<1.0		1.0		ug/L			12/02/15 16:36	1
Xylenes, Total	<3.0		3.0		ug/L			12/02/15 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*77*		*50 - 150*		*12/02/15 16:36*	*1*

Lab Sample ID: MB 490-303784/23
Matrix: Water
Analysis Batch: 303784

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/02/15 22:59	1
Ethylbenzene	<1.0		1.0		ug/L			12/02/15 22:59	1
Toluene	<1.0		1.0		ug/L			12/02/15 22:59	1
Xylenes, Total	<3.0		3.0		ug/L			12/02/15 22:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*12/02/15 22:59*	*1*

Lab Sample ID: MB 490-303784/36
Matrix: Water
Analysis Batch: 303784

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/03/15 05:18	1
Ethylbenzene	<1.0		1.0		ug/L			12/03/15 05:18	1
Toluene	<1.0		1.0		ug/L			12/03/15 05:18	1
Xylenes, Total	<3.0		3.0		ug/L			12/03/15 05:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*12/03/15 05:18*	*1*

Lab Sample ID: LCS 490-303784/3
Matrix: Water
Analysis Batch: 303784

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			100	94.4		ug/L		94	69 - 129		
Ethylbenzene			100	99.1		ug/L		99	70 - 130		
Toluene			100	97.7		ug/L		98	66 - 127		
Xylenes, Total			200	198		ug/L		99	69 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*71*		*50 - 150*

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

Lab Sample ID: LCS 490-303784/43
Matrix: Water
Analysis Batch: 303784

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	94.0		ug/L		94	69 - 129
Ethylbenzene	100	99.2		ug/L		99	70 - 130
Toluene	100	97.6		ug/L		98	66 - 127
Xylenes, Total	200	198		ug/L		99	69 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*85*		*50 - 150*

Lab Sample ID: LCSD 490-303784/4
Matrix: Water
Analysis Batch: 303784

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	100	92.8		ug/L		93	69 - 129	2	33
Ethylbenzene	100	97.3		ug/L		97	70 - 130	2	35
Toluene	100	96.3		ug/L		96	66 - 127	1	34
Xylenes, Total	200	195		ug/L		98	69 - 123	1	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*71*		*50 - 150*

Lab Sample ID: LCSD 490-303784/44
Matrix: Water
Analysis Batch: 303784

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	100	91.6		ug/L		92	69 - 129	3	33
Ethylbenzene	100	97.4		ug/L		97	70 - 130	2	35
Toluene	100	95.8		ug/L		96	66 - 127	2	34
Xylenes, Total	200	195		ug/L		98	69 - 123	1	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*86*		*50 - 150*

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-2
Date Collected: 11/23/15 14:00
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/02/15 21:01	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-4
Date Collected: 11/23/15 13:45
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/02/15 21:30	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-6
Date Collected: 11/23/15 14:30
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 07:15	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-7
Date Collected: 11/23/15 14:35
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/02/15 23:57	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-9
Date Collected: 11/23/15 14:20
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 00:26	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-10
Date Collected: 11/23/15 14:50
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 00:55	GWM	TAL NSH
	Instrument ID: HP52									

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-12
Date Collected: 11/23/15 13:30
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 01:25	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-13
Date Collected: 11/23/15 13:50
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 01:54	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-14
Date Collected: 11/23/15 13:35
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 02:23	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-15
Date Collected: 11/23/15 15:00
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 02:52	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-16
Date Collected: 11/23/15 14:40
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 03:22	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-17
Date Collected: 11/23/15 14:05
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 03:51	GWM	TAL NSH
	Instrument ID: HP52									

Lab Chronicle

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Client Sample ID: MW-18
Date Collected: 11/23/15 14:10
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 05:48	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-19
Date Collected: 11/23/15 14:45
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 06:17	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: MW-20
Date Collected: 11/23/15 15:10
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/03/15 06:46	GWM	TAL NSH
	Instrument ID: HP52									

Client Sample ID: TRIP BLANK
Date Collected: 11/23/15 15:00
Date Received: 11/25/15 09:29

Lab Sample ID: 400-114406-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	303784	12/02/15 23:28	GWM	TAL NSH
	Instrument ID: HP52									

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	11-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-15
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-16
Arizona	State Program	9	AZ0473	05-05-16
Arkansas DEQ	State Program	6	88-0737	04-25-16
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200010	12-09-16
Iowa	State Program	7	131	04-01-16
Kansas	NELAP	7	E-10229	01-31-16
Kentucky (UST)	State Program	4	19	06-30-16
Kentucky (WW)	State Program	4	90038	12-31-15
Louisiana	NELAP	6	30613	06-30-16
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-16
Massachusetts	State Program	1	M-TN032	06-30-16
Minnesota	NELAP	5	047-999-345	12-31-16
Mississippi	State Program	4	N/A	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Laboratory: TestAmerica Nashville (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-16
New Hampshire	NELAP	1	2963	10-09-16
New Jersey	NELAP	2	TN965	06-30-16
New York	NELAP	2	11342	03-31-16
North Carolina (WW/SW)	State Program	4	387	12-31-15
North Dakota	State Program	8	R-146	06-30-16
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-16
Oregon	NELAP	10	TN200001	04-27-16
Pennsylvania	NELAP	3	68-00585	06-30-16
Rhode Island	State Program	1	LAO00268	12-30-15
South Carolina	State Program	4	84009 (001)	02-28-16
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-16
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-16
Virginia	NELAP	3	460152	06-14-16
Washington	State Program	10	C789	07-19-16
West Virginia DEP	State Program	3	219	02-28-16
Wisconsin	State Program	5	998020430	08-31-16
Wyoming (UST)	A2LA	8	453.07	12-31-15

Method Summary

Client: MWH Americas Inc
Project/Site: Johnston Fed #4

TestAmerica Job ID: 400-114406-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

SERIAL NUMBER: 82712

400-114406 COC

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.	BOTTLE ORDER NO.	ORDER - LOG-IN NO.
		C

CLIENT	ADDRESS	PAGE	OF
MWH	1560 Broadway 1800	1	2

PROJECT NAME	PROJECT NO.	CLIENT PROJECT MANAGER	PROJECT LOC. (STATE)
NM-GW Pits Johnston Fed #4		Steve Varsa	NM

SAMPLED BY	CONTRACT / P.O. NO.
Sarah Gardner & Chris Lee	Johnston Fed #4

CLIENT PHONE	CLIENT E-MAIL OR FAX
303291 2239	sarah.gardner@mwhglobal.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☐ NORMAL ☒ 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☒ DISPOSAL BY LAB
☐ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS: 8021B - BTEX

POSSIBLE HAZARD IDENTIFICATION
☒ NON-HAZARD
△ FLAMMABLE
△ RADIOACTIVE
△ POISON B
△ UNKNOWN
△ OTHER:

NO. OF COOLERS PER SHIPMENT:

LAB USE ONLY - SAMPLE NUMBER

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED
11/23/15	1400	MW-2		X									X				2
11/23/15	1345	MW-4		X									X				2
11/23/15	1430	MW-6		X									X				2
11/23/15	1435	MW-7		X									X				2
11/23/15	1420	MW-9		X									X				2
11/23/15	1450	MW-10		X									X				2
11/23/15	1330	MW-12		X									X				2
11/23/15	1350	MW-13		X									X				2
11/23/15	1335	MW-14		X									X				2
11/23/15	1500	MW-15		X									X				2
11/23/15	1440	MW-16		X									X				2
11/23/15	1405	MW-17		X									X				2
11/23/15	1410	MW-18		X									X				2

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Sarah Gardner	11/24/15	1120			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	11/25/15	0929	△ YES △ NO		0.1°C - IR6

TAL-8251 (1207)

SERIAL NUMBER: 82726

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.	BOTTLE ORDER NO.	ORDER - LOG-IN NO.
		C

CLIENT	ADDRESS	PAGE	OF
MWH	1560 Broadway Suite 1800	2	2

PROJECT NAME	PROJECT NO.	CLIENT PROJECT MANAGER	PROJECT LOC. (STATE)
NM-GW Pits Johnston Fed #4	Johnston Fed #4	Steve Varsa	NM

SAMPLED BY	CONTRACT / P.O. NO.
Sarah Gardner & Chris Lee	

CLIENT PHONE	CLIENT E-MAIL OR FAX
303 291 2239	sarah.gardner@mwhglobal.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☐ NORMAL ☒ 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☒ DISPOSAL BY LAB
☐ SEE CONTRACT ☐ OTHER:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: 8021B - BTEX
11/23/15	1445	MW-19		X									X				2
11/23/15	1510	MW-20		X									X				2
11/23/15	1500	TRIP BLANK		X									X				2

REQUESTED ANALYSIS	POSSIBLE HAZARD IDENTIFICATION	LAB USE ONLY - SAMPLE NUMBER
	☒ NON-HAZARD △ FLAMMABLE △ RADIOACTIVE △ POISON B △ UNKNOWN △ OTHER:	
	NO. OF COOLERS PER SHIPMENT:	
	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Sarah Gardner	11/24/15	1120			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	11/25/15	0929	△ YES △ NO		

TAL-8251 (1207)

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-114406-1

Login Number: 114406
List Number: 1
Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1°C IR-6
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-114406-1

Login Number: 114406
List Number: 2
Creator: Vest, Laura E

List Source: TestAmerica Nashville
List Creation: 11/28/15 02:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	2.6
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.	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	

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-114406-1

Login Number: 114406
List Number: 3
Creator: Vest, Laura E

List Source: TestAmerica Nashville
List Creation: 11/28/15 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	2.6
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.	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	