

2016 ANNUAL GROUNDWATER REPORT

K-27 Line Drip
NMOCD Case#: 3RP-204-0
Meter Code: LD072
T25N, R6W, Sec4, Unit E

SITE DETAILS

Site Location: Latitude: 36.430553 N, Longitude: -107.480164 W
Land Type: Federal
Operator: Enterprise

SITE BACKGROUND

- **Site Assessment:** 7/94
- **Excavation:** 8/94

Environmental Remediation activities at the K-27 Line Drip (Site) are being 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, LLC’s (EPCGP’s) program methods. Currently, the Site is operated by Enterprise and is not active.

The Site is located on Federal land. Various site investigations have occurred from 1995 through 2016. Monitoring wells were installed in 1995 (MW-1), 2000 (MW-2 and MW-3), 2006 (MW-4), and 2016 (MW-2R, MW-3R, MW-5, MW-6, MW-7, and MW-8). Free product has been periodically encountered and recovered at the Site. In 2016, free product was observed in monitoring well MW-2R and 0.06 gallon was removed. Currently, groundwater sampling is conducted on a semi-annual basis.

MONITORING WELL INSTALLATION ACTIVITIES

In September 2016, new monitoring well locations were staked and surveyed for permitting and utility locating purposes. The monitoring well advancement and installation activities were completed in accordance with the Monitoring Well Installation Work Plan, submitted on September 7, 2016.

Six new wells (MW-2R, MW-3R, MW-5, MW-6, MW-7, and MW-8) were drilled in September 2016, to further characterize the extent of the dissolved-phase hydrocarbons at the Site. Soil boring SB-1 was advanced in the vicinity of the former pit to evaluate soil concentrations at this location. Additionally, MW-2, and MW-3 were plugged and abandoned in accordance to Subsection C of 19.27.4.30 of the New Mexico Administrative Code and the conditions outlined in the New Mexico Office of the State Engineer approved Plugging Plan. Ground surface and casing elevations of the new monitoring wells were surveyed in October 2016 by a licensed surveyor using state plane coordinates.

Monitoring wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. The well screen was

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installed from 25 feet below ground surface (bgs) to 50 feet bgs and bisects the observed water table located at depths ranging from 29-36 feet below the top of the monitoring well casings during 2016 gauging events. A 3-foot seal of bentonite chips was placed above the sandpack and hydrated, and the remaining annular space filled with bentonite grout. The wells were completed as stick-up wells with locking protective casings and a concrete surface completion. Four protective bollards were installed around each new monitoring well. Borehole logs and well construction diagrams are provided in Appendix A.

Monitoring well MW-6 was installed upgradient of the former pit location. Monitoring well MW-7 was installed to the west of well MW-1. Monitoring well MW-5 was installed east of the former pit. Monitoring well MW-8 was installed to the northwest and down gradient of MW-1 and MW-2. Wells MW-2R and MW-3R were installed near former monitoring wells MW-2 and MW-3, respectively. Soil boring SB-1 was completed near MW-1 to evaluate remaining soil impacts in the vicinity of the former pit. Pertinent site features and soil boring/monitoring well locations are shown on maps in Figures 1 through 5.

During drilling of the soil borings completed in September 2016, the soil sample interval exhibiting the highest photoionization detector (PID) reading was collected and placed in a 4-ounce jar for laboratory analysis. Additional soil samples were retained from SB-1 to quantify petroleum hydrocarbon concentrations at additional intervals. Retained 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 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 range organics using EPA Method 8015B; and chloride according to EPA Method 300. The soil sample analytical report is provided in Appendix B.

Monitoring well development was performed using a well swab and downhole pump until visibly clear groundwater was observed. Purged groundwater was containerized and transported to Basin Disposal, Inc. in Bloomfield, NM for disposal. Soil drums were staged on site for later disposal at Envirotech, Inc. (Envirotech), located south of Bloomfield, NM. On September 30, 2016, Sierra Oilfield Services, Inc. removed 14 drums of soil cuttings from the Site and delivered them to Envirotech. Disposal documentation is contained in Appendix C.

GROUNDWATER SAMPLING ACTIVITIES

On April 17 and October 15, 2016, water levels were gauged at MW-1, MW-3, and MW-4. New monitoring wells MW-2R, MW-3R, MW-5, MW-6, MW-7, and MW-8 were also gauged during the October 15, 2016 sampling event. Groundwater samples were collected from each well that did not contain free product using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set

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during the previous sampling event or after new well installation. HydraSleeves were suspended 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 Laboratories, Inc. in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). Additional field parameters are collected from the excess sample water recovered by the HydraSleeve. Excess sample water is poured into a YSI multi-parameter instrument sample cup and analyzed. Field parameters include dissolved oxygen, temperature, conductivity, pH, and oxidation-reduction potential. 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. Soil analytical results are summarized in Table 3.

SITE MAPS

Groundwater analytical maps (Figures 1 and 3) and groundwater elevation maps (Figures 2 and 4) summarize results of the 2016 groundwater sampling and gauging events. Soil analytical results are shown on Figure 5.

ANALYTICAL LAB REPORTS

The soil and groundwater analytical lab reports are included as Appendices B and D, respectively.

GROUNDWATER RESULTS

- The groundwater flow direction at the Site is generally to the northeast (see Figures 2 and 4).
- Free product was observed in MW-2R in 2016. No groundwater samples were collected from this monitoring well.
- Concentrations of benzene were either below the New Mexico Water Quality Control Commission (NMWQCC) standard (10 µg/L) or not detected in any of the Site monitoring wells sampled in 2016.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in any of the Site monitoring wells sampled in 2016.

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- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in any of the Site monitoring wells sampled in 2016.
- Concentrations of total xylenes were either below the NMWQCC standard (620 µg/L) or not detected in any of the Site monitoring wells sampled in 2016.

SOIL RESULTS

- Soil samples were collected from the borings for monitoring wells MW-2R, MW-3R, MW-5 through MW-8, and soil boring SB-1. Sample locations were based on elevated soil screening results. For benzene, concentrations ranged from non-detect to 25 milligrams per kilogram (mg/kg) (SB-1 28.5-29.5). Two samples collected from SB-1 (24.5-25.5 and 28.5-29.5) exceeded the New Mexico Oil Conservation Division (NMOCD) 2013 Pit Rule Guidance for benzene (10 mg/kg). Total BTEX concentrations exceeded the applicable limit in the NMOCD Guidance (50 mg/kg) at SB-1 (24.5-25.5 and 28.5-29.5).
- TPH ranged from non-detect (MW-3R) to 7,144 mg/kg in SB-1 (24.5-25.5). TPH concentrations exceeded the 2013 Pit Rule Guidance (100 mg/kg) at MW-2R, MW-6, MW-7, and SB-1 (24.5-25.5 and 28.5-29.5).
- Chloride was not detected in any of the soil samples collected.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis. Free product recovery activities will also be conducted in 2017. For any additional site activities, a Work Plan will be submitted to the NMOCD prior to implementation. The 2017 Annual Report will be submitted in early 2018.

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TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 3 – SOIL ANALYTICAL RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/04/96	996	2170	204	1520
MW-1	02/05/97	207	613	168	1010
MW-1	05/07/97	41.8	114	97.8	500
MW-1	08/08/97	1690	2980	298	1930
MW-1	11/07/97	533	1210	267	1720
MW-1	02/26/98	NS	NS	NS	NS
MW-1	02/24/99	NS	NS	NS	NS
MW-1	08/19/99	179	379	79.1	777
MW-1	11/10/99	39	95	56	390
MW-1	09/05/00	NS	NS	NS	NS
MW-1	10/06/00	NS	NS	NS	NS
MW-1	07/03/01	NS	NS	NS	NS
MW-1	09/04/01	NS	NS	NS	NS
MW-1	09/24/01	NS	NS	NS	NS
MW-1	04/01/02	NS	NS	NS	NS
MW-1	07/15/02	NS	NS	NS	NS
MW-1	10/08/02	NS	NS	NS	NS
MW-1	01/27/03	NS	NS	NS	NS
MW-1	04/26/03	NS	NS	NS	NS
MW-1	07/17/03	NS	NS	NS	NS
MW-1	10/13/03	NS	NS	NS	NS
MW-1	01/19/04	NS	NS	NS	NS
MW-1	04/20/04	NS	NS	NS	NS
MW-1	07/27/04	NS	NS	NS	NS
MW-1	10/20/04	NS	NS	NS	NS
MW-1	01/25/05	NS	NS	NS	NS
MW-1	04/14/05	NS	NS	NS	NS
MW-1	07/19/05	NS	NS	NS	NS
MW-1	10/12/05	NS	NS	NS	NS
MW-1	10/21/05	NS	NS	NS	NS
MW-1	01/23/06	NS	NS	NS	NS
MW-1	04/28/06	NS	NS	NS	NS
MW-1	07/26/06	NS	NS	NS	NS
MW-1	11/07/06	NS	NS	NS	NS

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	01/17/07	NS	NS	NS	NS
MW-1	04/24/07	NS	NS	NS	NS
MW-1	07/31/07	NS	NS	NS	NS
MW-1	10/25/07	NS	NS	NS	NS
MW-1	01/25/08	NS	NS	NS	NS
MW-1	04/18/08	NS	NS	NS	NS
MW-1	07/23/08	NS	NS	NS	NS
MW-1	10/08/08	7.3	3.9	20.2	68.7
MW-1	10/13/08	NS	NS	NS	NS
MW-1	01/16/09	NS	NS	NS	NS
MW-1	04/06/09	NS	NS	NS	NS
MW-1	08/25/09	NS	NS	NS	NS
MW-1	11/03/09	355	69.3	45.8	259
MW-1	02/16/10	NS	NS	NS	NS
MW-1	05/24/10	NS	NS	NS	NS
MW-1	09/27/10	NS	NS	NS	NS
MW-1	11/08/10	138	29.4	43.9	183
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/02/11	NS	NS	NS	NS
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/10/11	71.8	57.5	5	62.2
MW-1	02/22/12	NS	NS	NS	NS
MW-1	05/15/12	NS	NS	NS	NS
MW-1	06/05/13	350	61	15	220
MW-1	09/10/13	150	32	7	83
MW-1	12/11/13	150	100	13	120
MW-1	04/04/14	220	51	20	150
MW-1	10/22/14	140	53	5.2	73
MW-1	05/28/15	110	75	13	97
MW-1	11/21/15	65	17	2.1	28
MW-1	04/17/16	6.1	5.9	<1.0	10
MW-1	10/15/16	2	<5.0	<1.0	6.9

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	08/31/00	5500	14000	670	5800
MW-2	09/05/00	NS	NS	NS	NS
MW-2	10/06/00	NS	NS	NS	NS
MW-2	07/03/01	NS	NS	NS	NS
MW-2	09/04/01	NS	NS	NS	NS
MW-2	09/24/01	NS	NS	NS	NS
MW-2	01/02/02	NS	NS	NS	NS
MW-2	04/01/02	NS	NS	NS	NS
MW-2	07/15/02	NS	NS	NS	NS
MW-2	10/08/02	NS	NS	NS	NS
MW-2	01/27/03	NS	NS	NS	NS
MW-2	04/26/03	NS	NS	NS	NS
MW-2	07/17/03	NS	NS	NS	NS
MW-2	10/13/03	NS	NS	NS	NS
MW-2	01/19/04	NS	NS	NS	NS
MW-2	04/20/04	NS	NS	NS	NS
MW-2	07/27/04	NS	NS	NS	NS
MW-2	10/20/04	NS	NS	NS	NS
MW-2	01/25/05	NS	NS	NS	NS
MW-2	04/14/05	NS	NS	NS	NS
MW-2	07/19/05	NS	NS	NS	NS
MW-2	10/21/05	NS	NS	NS	NS
MW-2	01/23/06	NS	NS	NS	NS
MW-2	04/28/06	NS	NS	NS	NS
MW-2	07/26/06	NS	NS	NS	NS
MW-2	11/07/06	NS	NS	NS	NS
MW-2	01/17/07	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	04/24/07	NS	NS	NS	NS
MW-2	07/31/07	NS	NS	NS	NS
MW-2	10/25/07	NS	NS	NS	NS
MW-2	01/25/08	NS	NS	NS	NS
MW-2	04/18/08	NS	NS	NS	NS
MW-2	07/23/08	NS	NS	NS	NS
MW-2	10/13/08	NS	NS	NS	NS
MW-2	01/16/09	NS	NS	NS	NS
MW-2	04/06/09	NS	NS	NS	NS
MW-2	08/25/09	NS	NS	NS	NS
MW-2	11/03/09	223	1070	532	2590
MW-2	02/16/10	NS	NS	NS	NS
MW-2	05/24/10	NS	NS	NS	NS
MW-2	09/27/10	NS	NS	NS	NS
MW-2	11/08/10	152	547	471	2190
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/02/11	NS	NS	NS	NS
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/10/11	31.9	101	156	446
MW-2	02/22/12	NS	NS	NS	NS
MW-2	05/15/12	NS	NS	NS	NS
MW-2	06/05/13	NS	NS	NS	NS
MW-2	09/10/13	NS	NS	NS	NS
MW-2	12/11/13	NS	NS	NS	NS
MW-2	04/04/14	NS	NS	NS	NS
MW-2 abandoned and replaced with MW-2R on September 26, 2016					
MW-2R	10/15/16	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	09/05/00	<0.5	<0.5	<0.5	<0.5
MW-3	07/03/01	<0.5	<0.5	<0.5	<0.5
MW-3	09/04/01	NS	NS	NS	NS
MW-3	09/24/01	NS	NS	NS	NS
MW-3	04/01/02	NS	NS	NS	NS
MW-3	07/15/02	NS	NS	NS	NS
MW-3	10/08/02	NS	NS	NS	NS
MW-3	07/17/03	NS	NS	NS	NS
MW-3	10/13/03	NS	NS	NS	NS
MW-3	01/19/04	NS	NS	NS	NS
MW-3	04/20/04	NS	NS	NS	NS
MW-3	07/27/04	NS	NS	NS	NS
MW-3	10/20/04	NS	NS	NS	NS
MW-3	01/25/05	NS	NS	NS	NS
MW-3	04/14/05	NS	NS	NS	NS
MW-3	07/19/05	NS	NS	NS	NS
MW-3	10/21/05	<1	<1	<1	<2
MW-3	01/23/06	NS	NS	NS	NS
MW-3	04/28/06	NS	NS	NS	NS
MW-3	07/26/06	NS	NS	NS	NS
MW-3	11/07/06	1.1	1.6	0.42 J	2.3
MW-3	01/17/07	NS	NS	NS	NS
MW-3	04/24/07	NS	NS	NS	NS
MW-3	07/31/07	NS	NS	NS	NS
MW-3	10/25/07	<1	<1	<1	<2
MW-3	01/25/08	NS	NS	NS	NS
MW-3	04/18/08	NS	NS	NS	NS
MW-3	07/23/08	NS	NS	NS	NS
MW-3	10/08/08	<2	<2	<2	<6

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	10/13/08	NS	NS	NS	NS
MW-3	01/16/09	NS	NS	NS	NS
MW-3	04/06/09	NS	NS	NS	NS
MW-3	08/25/09	NS	NS	NS	NS
MW-3	11/03/09	<1	<1	<1	<2
MW-3	02/16/10	NS	NS	NS	NS
MW-3	05/24/10	NS	NS	NS	NS
MW-3	09/27/10	NS	NS	NS	NS
MW-3	11/08/10	<2	<2	<2	<6
MW-3	02/01/11	NS	NS	NS	NS
MW-3	05/02/11	NS	NS	NS	NS
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/10/11	<1	<1	<1	<3
MW-3	02/22/12	NS	NS	NS	NS
MW-3	05/15/12	NS	NS	NS	NS
MW-3	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-3	09/10/13	NS	NS	NS	NS
MW-3	12/11/13	NS	NS	NS	NS
MW-3	04/04/14	NS	NS	NS	NS
MW-3	10/22/14	NS	NS	NS	NS
MW-3	05/28/15	NS	NS	NS	NS
MW-3	11/21/15	NS	NS	NS	NS
MW-3	04/17/16	NS	NS	NS	NS
MW-3 abandoned and replaced with MW-3R on September 26, 2016					
MW-3R	10/15/16	<1.0	<5.0	<1.0	<5.0

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	11/08/06	<1	<1	<1	<2
MW-4	01/17/07	NS	NS	NS	NS
MW-4	04/24/07	NS	NS	NS	NS
MW-4	07/31/07	NS	NS	NS	NS
MW-4	10/25/07	<1	<1	<1	<2
MW-4	01/25/08	NS	NS	NS	NS
MW-4	04/18/08	NS	NS	NS	NS
MW-4	07/23/08	NS	NS	NS	NS
MW-4	10/08/08	<2	<2	<2	<6
MW-4	10/13/08	NS	NS	NS	NS
MW-4	01/16/09	NS	NS	NS	NS
MW-4	04/06/09	NS	NS	NS	NS
MW-4	08/25/09	NS	NS	NS	NS
MW-4	11/03/09	<1	<1	<1	<2
MW-4	02/16/10	NS	NS	NS	NS
MW-4	05/24/10	NS	NS	NS	NS
MW-4	09/27/10	NS	NS	NS	NS
MW-4	11/08/10	<2	<2	<2	<6
MW-4	02/01/11	NS	NS	NS	NS
MW-4	05/02/11	NS	NS	NS	NS
MW-4	09/23/11	NS	NS	NS	NS
MW-4	11/10/11	<1	<1	<1	<3
MW-4	02/22/12	NS	NS	NS	NS
MW-4	05/15/12	NS	NS	NS	NS
MW-4	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-4	09/10/13	<0.14	<0.30	<0.20	<0.23
MW-4	12/11/13	<0.20	<0.38	<0.20	<0.65
MW-4	04/14/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/22/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/28/15	<1.0	<5.0	<1.0	<5.0
MW-4	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-4	10/15/16	<1.0	<5.0	<1.0	<5.0

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-6	10/15/16	4.5	<5.0	4.5	59
MW-7	10/15/16	2.2	<5.0	<1.0	<5.0
MW-8	10/15/16	4.8	42	23	230

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

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/04/96	6261.93	37.44	NR		6224.49
MW-1	02/05/97	6261.93	36.89	NR		6225.04
MW-1	05/07/97	6261.93	36.73	NR		6225.20
MW-1	08/08/97	6261.93	37.61	NR		6224.32
MW-1	11/07/97	6261.93	37.33	37.21	0.12	6224.69
MW-1	02/26/98	6261.93	36.89	36.71	0.18	6225.18
MW-1	02/24/99	6261.93	36.39	36.27	0.12	6225.63
MW-1	08/19/99	6261.93	36.48	NR		6225.45
MW-1	11/10/99	6261.93	36.17	36.10	0.07	6225.81
MW-1	09/05/00	6261.93	37.22	NR		6224.71
MW-1	10/06/00	6261.93	37.42	NR		6224.51
MW-1	07/03/01	6261.93	36.64	36.49	0.15	6225.40
MW-1	09/04/01	6261.93	37.43	37.39	0.04	6224.53
MW-1	09/24/01	6261.93	37.45	37.40	0.05	6224.52
MW-1	04/01/02	6261.93	37.01	NR		6224.92
MW-1	07/15/02	6261.93	38.02	37.85	0.17	6224.04
MW-1	10/08/02	6261.93	38.01	38.00	0.01	6223.93
MW-1	01/27/03	6261.93	37.42	ND		6224.51
MW-1	04/26/03	6261.93	37.15	ND		6224.78
MW-1	07/17/03	6261.93	38.36	38.18	0.18	6223.71
MW-1	10/13/03	6261.93	38.29	ND		6223.64
MW-1	01/19/04	6261.93	37.69	37.68	0.01	6224.25
MW-1	04/20/04	6261.93	37.29	ND		6224.64
MW-1	07/27/04	6261.93	38.45	38.28	0.17	6223.61
MW-1	10/20/04	6261.93	38.71	38.68	0.03	6223.24
MW-1	01/25/05	6261.93	38.18	38.16	0.02	6223.77
MW-1	04/14/05	6261.93	37.84	37.75	0.09	6224.16
MW-1	07/19/05	6261.93	38.84	ND		6223.09
MW-1	10/12/05	6261.93	38.46	ND		6223.47
MW-1	10/21/05	6261.93	38.46	ND		6223.47
MW-1	01/23/06	6261.93	37.89	ND		6224.04
MW-1	04/28/06	6261.93	37.57	ND		6224.36

TABLE 2 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	07/26/06	6261.93	38.61	ND		6223.32
MW-1	11/07/06	6261.93	36.37	36.31	0.06	6225.61
MW-1	01/17/07	6261.93	35.91	ND		6226.02
MW-1	04/24/07	6261.93	35.53	ND		6226.40
MW-1	07/31/07	6261.93	36.57	ND		6225.36
MW-1	10/25/07	6261.93	36.04	ND		6225.89
MW-1	01/25/08	6261.93	35.90	ND		6226.03
MW-1	04/18/08	6261.93	35.47	ND		6226.46
MW-1	07/23/08	6261.93	36.43	ND		6225.50
MW-1	10/08/08	6261.93	36.95	ND		6224.98
MW-1	10/13/08	6261.93	36.93	ND		6225.00
MW-1	01/16/09	6261.93	36.77	ND		6225.16
MW-1	04/06/09	6261.93	36.30	ND		6225.63
MW-1	08/25/09	6261.93	37.53	ND		6224.40
MW-1	11/03/09	6261.93	37.58	ND		6224.35
MW-1	02/16/10	6261.93	37.32	ND		6224.61
MW-1	05/24/10	6261.93	36.97	ND		6224.96
MW-1	09/27/10	6261.93	37.98	ND		6223.95
MW-1	11/08/10	6261.93	37.70	ND		6224.23
MW-1	02/01/11	6261.93	37.35	ND		6224.58
MW-1	05/02/11	6261.93	37.26	ND		6224.67
MW-1	09/23/11	6261.93	38.45	ND		6223.48
MW-1	11/10/11	6261.93	38.30	ND		6223.63
MW-1	02/22/12	6261.93	37.82	ND		6224.11
MW-1	05/15/12	6261.93	37.81	ND		6224.12
MW-1	06/05/13	6261.93	38.16	ND		6223.77
MW-1	09/10/13	6261.93	38.85	ND		6223.08
MW-1	12/11/13	6261.93	38.05	ND		6223.88
MW-1	04/04/14	6261.93	37.54	ND		6224.39
MW-1	10/22/14	6261.93	38.36	ND		6223.57
MW-1	05/28/15	6261.93	37.30	ND		6224.63
MW-1	11/21/15	6261.93	37.72	ND		6224.21
MW-1	04/17/16	6261.93	37.29	ND		6224.64
MW-1	10/15/16	6261.93	40.48	ND		6221.45

TABLE 2 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	08/31/00	6261.39	35.81	NR		6225.58
MW-2	09/05/00	6261.39	37.28	36.11	1.17	6224.99
MW-2	10/06/00	6261.39	37.31	36.04	1.27	6225.03
MW-2	07/03/01	6261.39	37.37	36.12	1.25	6224.96
MW-2	09/04/01	6261.39	36.52	36.25	0.27	6225.07
MW-2	09/24/01	6261.39	36.46	36.27	0.19	6225.07
MW-2	01/02/02	6261.39	36.97	35.87	1.10	6225.24
MW-2	04/01/02	6261.39	36.61	35.67	0.94	6225.48
MW-2	07/15/02	6261.39	38.00	NR		6223.39
MW-2	10/08/02	6261.39	37.01	36.94	0.07	6224.43
MW-2	01/27/03	6261.39	36.47	36.31	0.16	6225.04
MW-2	04/26/03	6261.39	36.88	35.85	1.03	6225.28
MW-2	07/17/03	6261.39	38.20	36.75	1.45	6224.28
MW-2	10/13/03	6261.39	37.64	37.07	0.57	6224.18
MW-2	01/19/04	6261.39	36.72	36.51	0.21	6224.83
MW-2	04/20/04	6261.39	36.93	35.91	1.02	6225.22
MW-2	07/27/04	6261.39	38.30	36.88	1.42	6224.15
MW-2	10/20/04	6261.39	38.23	37.37	0.86	6223.80
MW-2	01/25/05	6261.39	42.87	36.77	6.10	6223.09
MW-2	04/14/05	6261.39	36.55	36.55	0.00	6224.84
MW-2	07/19/05	6261.39	38.16	37.55	0.61	6223.69
MW-2	10/21/05	6261.39	38.31	37.06	1.25	6224.02
MW-2	01/23/06	6261.39	37.31	36.69	0.62	6224.54
MW-2	04/28/06	6261.39	37.01	36.33	0.68	6224.89
MW-2	07/26/06	6261.39	38.37	37.42	0.95	6223.73
MW-2	11/07/06	6261.39	35.28	35.21	0.07	6226.16

TABLE 2 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	01/17/07	6261.39	35.35	ND		6226.04
MW-2	04/24/07	6261.39	35.08	ND		6226.31
MW-2	07/31/07	6261.39	36.03	36.01	0.02	6225.37
MW-2	10/25/07	6261.39	35.53	ND		6225.86
MW-2	01/25/08	6261.39	35.37	35.34	0.03	6226.04
MW-2	04/18/08	6261.39	34.90	ND		6226.49
MW-2	07/23/08	6261.39	35.95	ND		6225.44
MW-2	10/13/08	6261.39	36.39	ND		6225.00
MW-2	01/16/09	6261.39	36.39	36.14	0.25	6225.19
MW-2	04/06/09	6261.39	35.98	35.94	0.04	6225.44
MW-2	08/25/09	6261.39	37.03	36.97	0.06	6224.40
MW-2	11/03/09	6261.39	37.00	36.96	0.04	6224.42
MW-2	02/16/10	6261.39	36.96	ND		6224.43
MW-2	05/24/10	6261.39	36.55	36.48	0.07	6224.89
MW-2	09/27/10	6261.39	37.58	37.57	0.01	6223.82
MW-2	11/08/10	6261.39	37.72	ND		6223.67
MW-2	02/01/11	6261.39	36.92	ND		6224.47
MW-2	05/02/11	6261.39	36.71	ND		6224.68
MW-2	09/23/11	6261.39	38.01	ND		6223.38
MW-2	11/10/11	6261.39	37.70	37.69	0.01	6223.70
MW-2	02/22/12	6261.39	37.54	37.39	0.15	6223.96
MW-2	05/15/12	6261.39	37.48	37.37	0.11	6223.99
MW-2	06/05/13	6261.39	NA	ND		NA
MW-2	09/10/13	6261.39	NA	ND		NA
MW-2	12/11/13	6261.39	NA	ND		NA
MW-2	04/04/14	6261.39	NA	ND		NA
MW-2 abandoned and replaced with MW-2R on September 26, 2016						
MW-2R	10/15/16	6260.93	37.97	37.62	0.35	6223.22

TABLE 2 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	09/05/00	6261.71	37.40	NR		6224.31
MW-3	07/03/01	6261.71	37.69	NR		6224.02
MW-3	09/04/01	6261.71	37.50	NR		6224.21
MW-3	09/24/01	6261.71	37.51	NR		6224.20
MW-3	04/01/02	6261.71	37.08	NR		6224.63
MW-3	07/15/02	6261.71	37.13	NR		6224.58
MW-3	10/08/02	6261.71	38.09	NR		6223.63
MW-3	07/17/03	6261.71	38.28	ND		6223.43
MW-3	10/13/03	6261.71	38.34	ND		6223.37
MW-3	01/19/04	6261.71	37.69	ND		6224.02
MW-3	04/20/04	6261.71	37.26	ND		6224.45
MW-3	07/27/04	6261.71	38.36	ND		6223.35
MW-3	10/20/04	6261.71	38.72	ND		6222.99
MW-3	01/25/05	6261.71	38.13	ND		6223.58
MW-3	04/14/05	6261.71	37.74	ND		6223.97
MW-3	07/19/05	6261.71	38.74	ND		6222.97
MW-3	10/21/05	6261.71	38.48	ND		6223.23
MW-3	01/23/06	6261.71	37.89	ND		6223.82
MW-3	04/28/06	6261.71	37.61	ND		6224.10
MW-3	07/26/06	6261.71	38.34	ND		6223.37
MW-3	11/07/06	6261.71	36.50	ND		6225.21
MW-3	01/17/07	6261.71	35.98	ND		6225.73
MW-3	04/24/07	6261.71	35.64	ND		6226.07
MW-3	07/31/07	6261.71	36.59	ND		6225.12
MW-3	10/25/07	6261.71	36.20	ND		6225.51
MW-3	01/25/08	6261.71	36.00	ND		6225.71

TABLE 2 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	04/18/08	6261.71	35.56	ND		6226.15
MW-3	07/23/08	6261.71	36.60	ND		6225.11
MW-3	10/08/08	6261.71	37.09	ND		6224.62
MW-3	10/13/08	6261.71	37.09	ND		6224.62
MW-3	01/16/09	6261.71	36.83	ND		6224.88
MW-3	04/06/09	6261.71	36.43	ND		6225.28
MW-3	08/25/09	6261.71	37.62	ND		6224.09
MW-3	11/03/09	6261.71	37.67	ND		6224.04
MW-3	02/16/10	6261.71	37.16	ND		6224.55
MW-3	05/24/10	6261.71	37.02	ND		6224.69
MW-3	09/27/10	6261.71	38.07	ND		6223.64
MW-3	11/08/10	6261.71	37.82	ND		6223.89
MW-3	02/01/11	6261.71	37.39	ND		6224.32
MW-3	05/02/11	6261.71	37.28	ND		6224.43
MW-3	09/23/11	6261.71	38.15	ND		6223.56
MW-3	11/10/11	6261.71	38.13	ND		6223.58
MW-3	02/22/12	6261.71	37.85	ND		6223.86
MW-3	05/15/12	6261.71	37.87	ND		6223.84
MW-3	06/05/13	6261.71	38.26	ND		6223.45
MW-3	09/10/13	6261.71	38.95	ND		6222.76
MW-3	12/11/13	6261.71	DRY	ND		DRY
MW-3	04/04/14	6261.71	DRY	ND		DRY
MW-3	10/22/14	6261.71	DRY	ND		DRY
MW-3	05/28/15	6261.71	DRY	ND		DRY
MW-3	11/21/15	6261.71	DRY	ND		DRY
MW-3	04/17/16	6261.71	DRY	ND		DRY
MW-3 abandoned and replaced with MW-3R on September 26, 2016						
MW-3R	10/15/16	6261.09	37.92	ND		6223.17

TABLE 2 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	11/08/06	6258.51	32.95	ND		6225.56
MW-4	01/17/07	6258.51	32.63	ND		6225.88
MW-4	04/24/07	6258.51	32.30	ND		6226.21
MW-4	07/31/07	6258.51	33.33	ND		6225.18
MW-4	10/25/07	6258.51	32.90	ND		6225.61
MW-4	01/25/08	6258.51	32.64	ND		6225.87
MW-4	04/18/08	6258.51	32.20	ND		6226.31
MW-4	07/23/08	6258.51	33.30	ND		6225.21
MW-4	10/08/08	6258.51	33.79	ND		6224.72
MW-4	10/13/08	6258.51	33.80	ND		6224.71
MW-4	01/16/09	6258.51	33.53	ND		6224.98
MW-4	04/06/09	6258.51	33.18	ND		6225.33
MW-4	08/25/09	6258.51	34.35	ND		6224.16
MW-4	11/03/09	6258.51	34.35	ND		6224.16
MW-4	02/16/10	6258.51	34.05	ND		6224.46
MW-4	05/24/10	6258.51	33.65	ND		6224.86
MW-4	09/27/10	6258.51	34.81	ND		6223.70
MW-4	11/08/10	6258.51	34.55	ND		6223.96
MW-4	02/01/11	6258.51	34.12	ND		6224.39
MW-4	05/02/11	6258.51	33.93	ND		6224.58
MW-4	09/23/11	6258.51	35.22	ND		6223.29
MW-4	11/10/11	6258.51	35.02	ND		6223.49
MW-4	02/22/12	6258.51	34.66	ND		6223.85
MW-4	05/15/12	6258.51	34.61	ND		6223.90
MW-4	06/05/13	6258.51	34.96	ND		6223.55
MW-4	09/10/13	6258.51	35.61	ND		6222.90
MW-4	12/11/13	6258.51	34.73	ND		6223.78
MW-4	04/14/14	6258.51	34.21	ND		6224.30
MW-4	10/22/14	6258.51	35.10	ND		6223.41
MW-4	05/28/15	6258.51	34.08	ND		6224.43
MW-4	11/21/15	6258.51	34.33	ND		6224.18
MW-4	04/17/16	6258.51	33.92	ND		6224.59
MW-4	10/15/16	6258.51	35.27	ND		6223.24
MW-5	10/15/16	6264.51	41.24	ND		6223.27
MW-6	10/15/16	6263.51	40.14	ND		6223.37
MW-7	10/15/16	6262.84	39.32	ND		6223.52
MW-8	10/15/16	6260.37	37.10	ND		6223.27

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

K27 Line Drip											
Location (depth in feet bgs)	Date (mm/dd/yy)	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
MW-2R (32.5-33.5)	09/24/16	0.55	4.2	4.3	23	32.1	1100	190	BRL	1290	BRL
MW-3R (31-32)	09/24/16	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-5 (36-37)	09/22/16	BRL	BRL	BRL	BRL	BRL	38	9.4	BRL	47	BRL
MW-6 (36.5-37.5)	09/23/16	0.91	2.2	3.1	21	27.2	640	150	BRL	790	BRL
MW-7 (34.5-35.5)	09/23/16	4.0	4.9	7.7	25	41.6	2000	110	BRL	2110	BRL
MW-8 (33-34)	09/25/16	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SB-1 (22.5-23.5)	09/25/16	BRL	BRL	0.07	0.37	0.44	21	36	BRL	57	BRL
SB-1 (24.5-25.5)	09/25/16	20	120	30	150	320	6900	220	24	7144	BRL
SB-1 (28.5-29.5)	09/25/16	25	120	24	120	289	6400	120	BRL	6520	BRL

Notes:

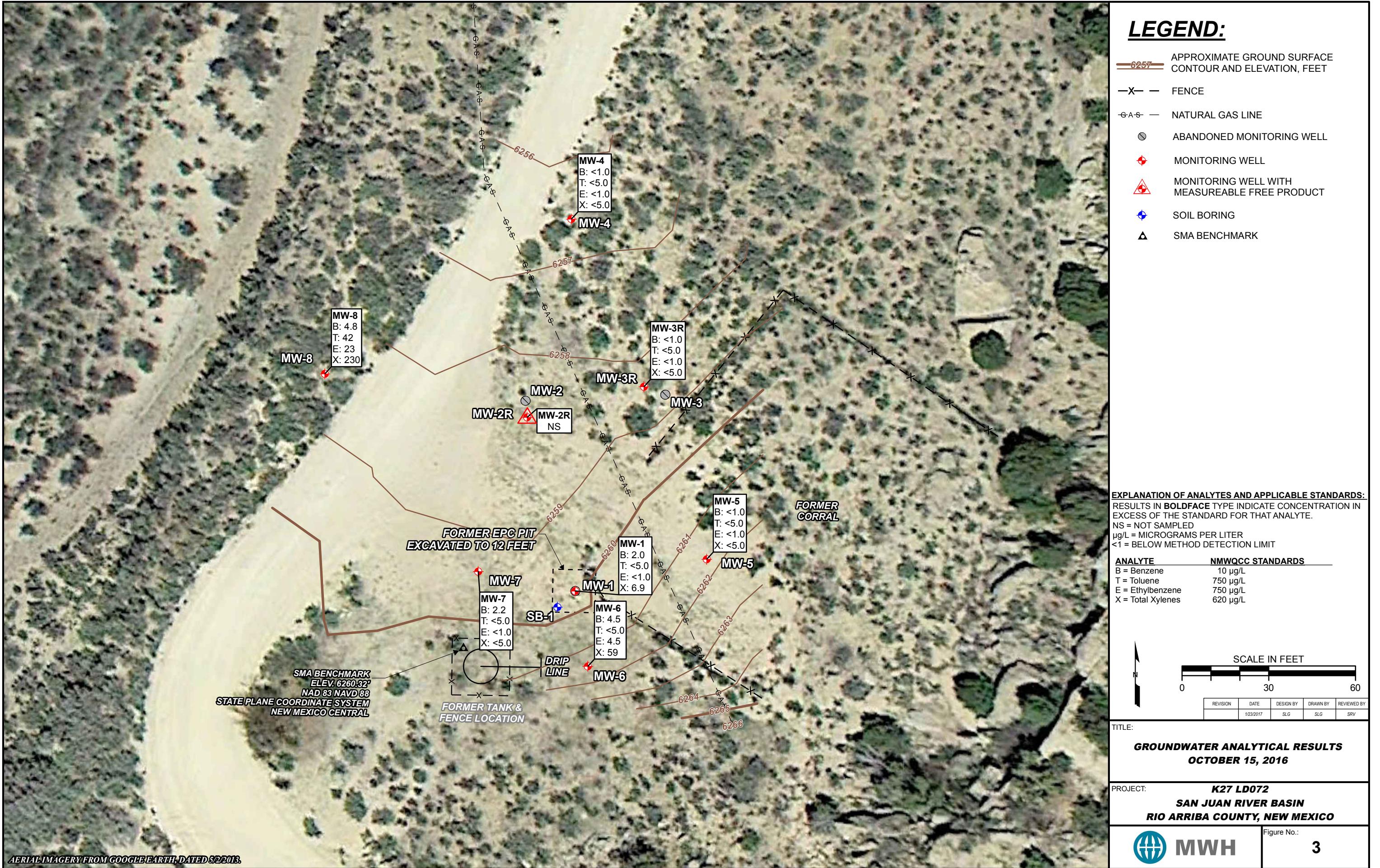
mg/kg	Milligrams per kilogram
BRL	Below Reporting Limits
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents
TPH	Total Petroleum Hydrocarbon concentration is 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 below bottom of pit to groundwater less than 10,000 mg/L TDS
	Results bolded and highlighted yellow exceed their respective NMOCD Standards

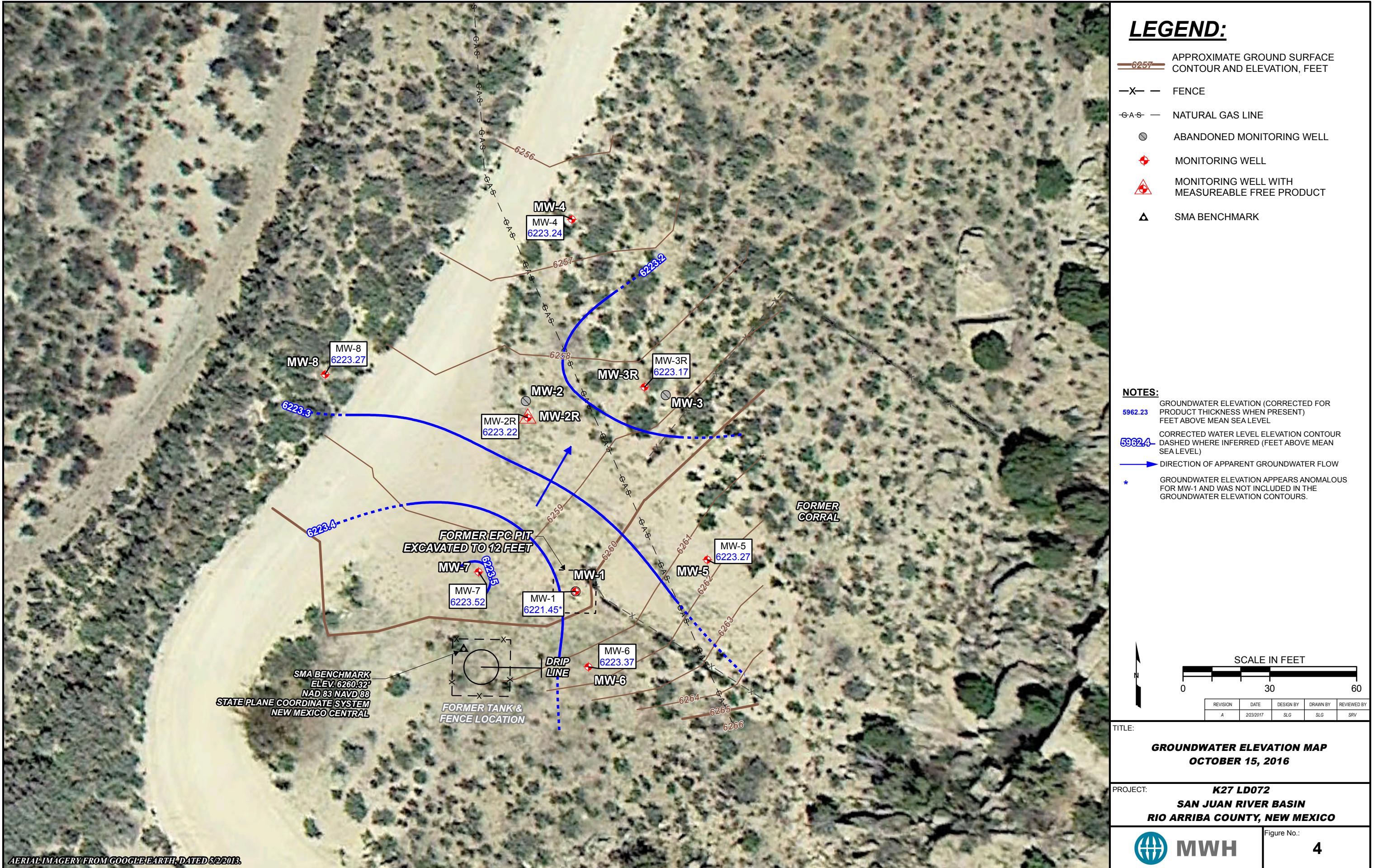
FIGURES

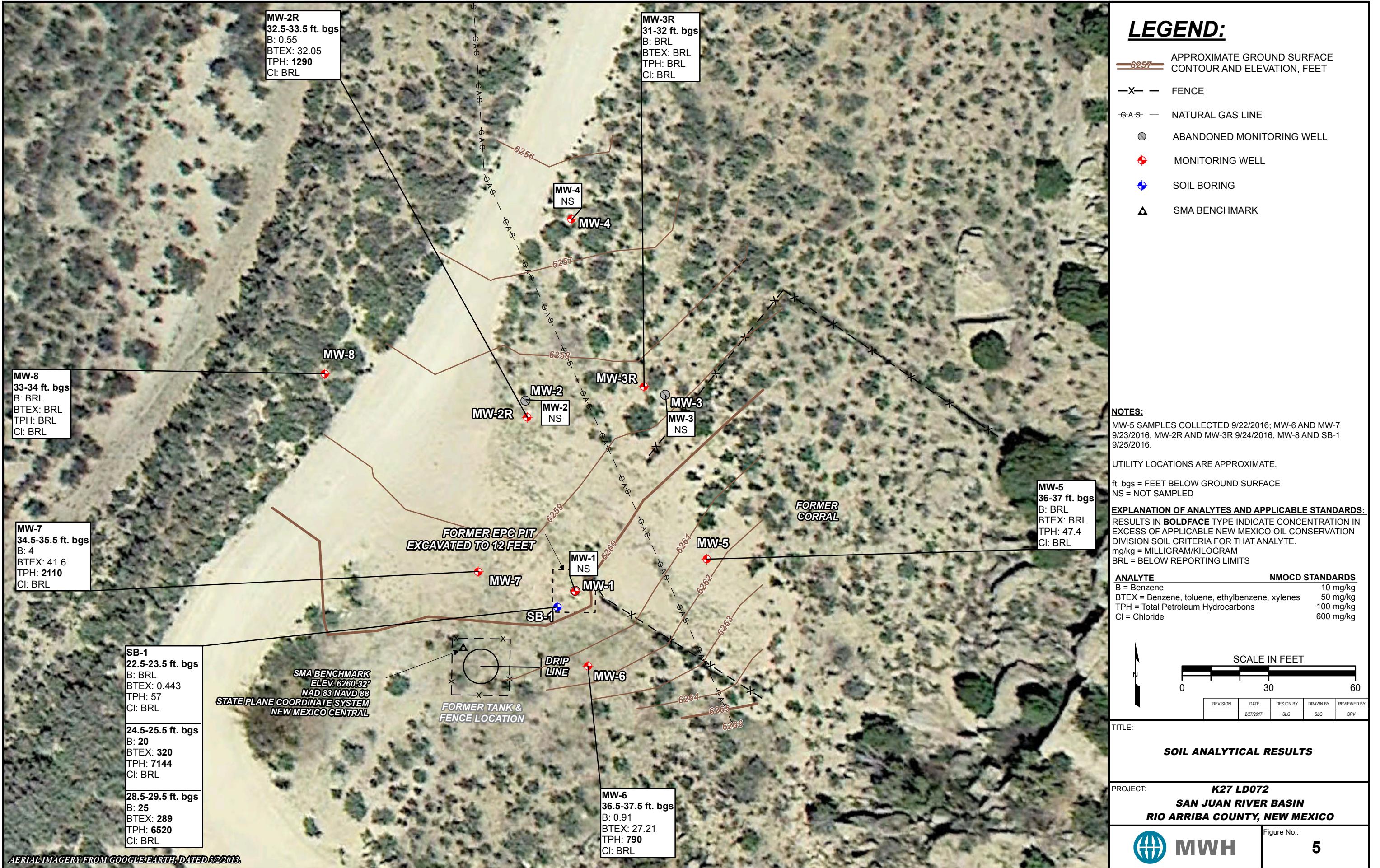
- FIGURE 1: APRIL 17, 2016 GROUNDWATER ANALYTICAL RESULTS MAP
- FIGURE 2: APRIL 17, 2016 GROUNDWATER ELEVATION MAP
- FIGURE 3: OCTOBER 15, 2016 GROUNDWATER ANALYTICAL RESULTS MAP
- FIGURE 4: OCTOBER 15, 2016 GROUNDWATER ELEVATION MAP
- FIGURE 5: SOIL ANALYTICAL RESULTS MAP











APPENDICES

APPENDIX A – BOREHOLE AND WELL CONSTRUCTION LOGS

APPENDIX B – SOIL SAMPLING ANALYTICAL REPORTS

APPENDIX C – WASTE DISPOSAL DOCUMENTATION

**APPENDIX D – MAY 3, 2016 GROUNDWATER SAMPLING ANALYTICAL REPORT
OCTOBER 27, 2016 GROUNDWATER SAMPLING ANALYTICAL REPORT**

APPENDIX A



MWH

Drilling Log

Monitoring Well

MW-2R

Page: 1 of 2

Project K-27 Line Drip
 Location Rio Arriba County, New Mexico

Owner El Paso CGP Company, LLC
 Project Number 10509761

Surface Elev. 6258.52 ft North 1978388.811 East 1278595.086
 Top of Casing 6260.93 ft Water Level Initial 6224.52 09/23/16
00:00 Static 6223.21

Hole Depth 50.0 ft Screen: Diameter 2 in Length 25.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 24.7 ft Type PVC

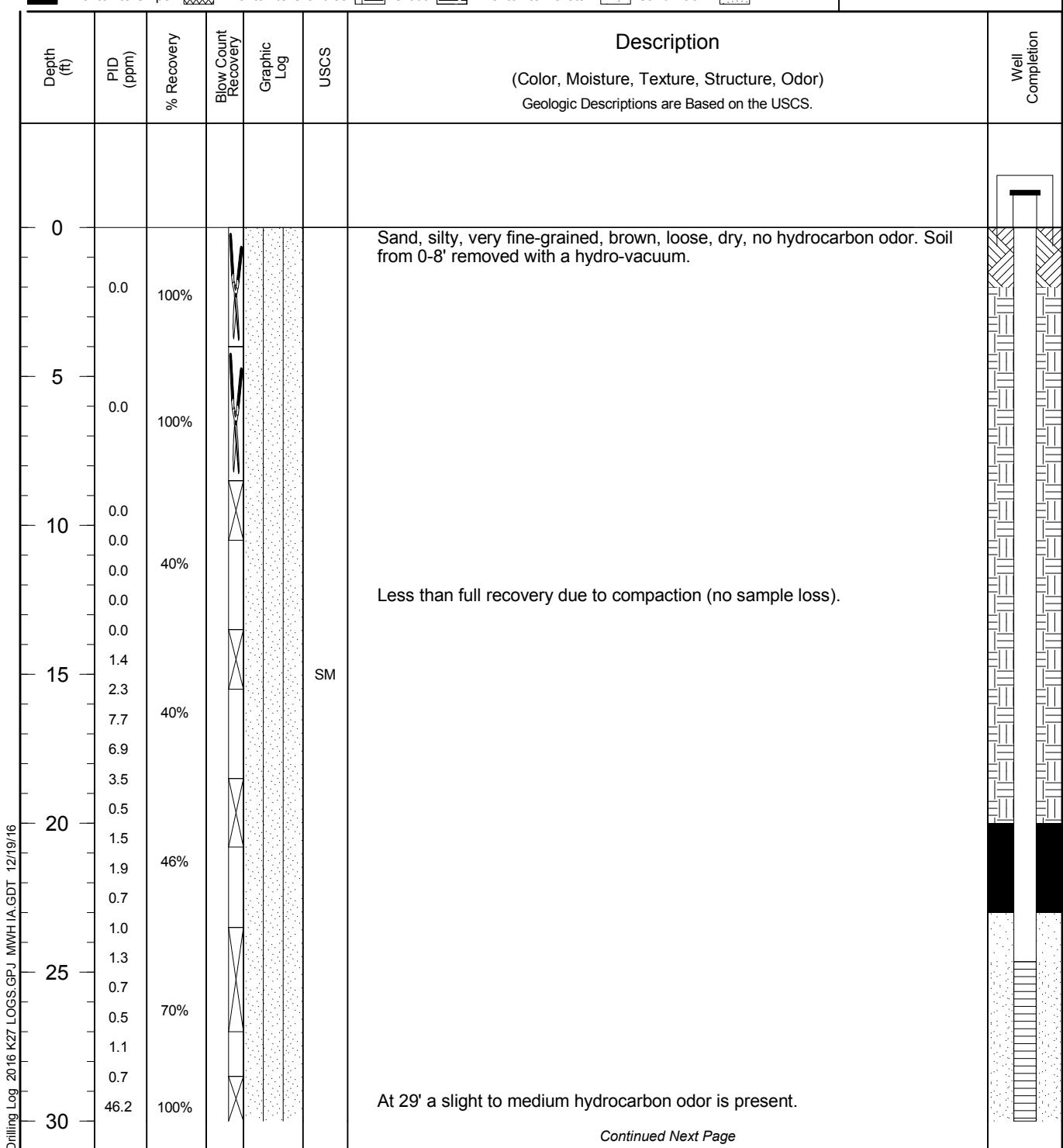
Drill Co. National EWP Drilling Method Hollow Stem Auger Sand Pack 10/20 Silica

Driller Gary Driller Reg. # 1210 Log By Brad Barton

Start Date 9/23/2016 Completion Date 9/26/2016 Checked By S. Varsa

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack

COMMENTS
 Surface is dirt with minor vegetation.





MWH

Drilling Log

Monitoring Well

MW-2R

Page: 2 of 2

Project K-27 Line Drip

Owner El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
30							
34.1							
29.0							
111.2		100%					
2834		MW-2R					
32.5-33.5'							
2067							
1992							
1961							
1541							
1953							
45.4.8							
274.9							
198.5							
62.7							
2.9							
1.9							
0.9							
0.7							
0.7							
0.7							
1.4		84%					
2.1							
50							
55							
60							
65							
70							



MWH

Drilling Log

Monitoring Well

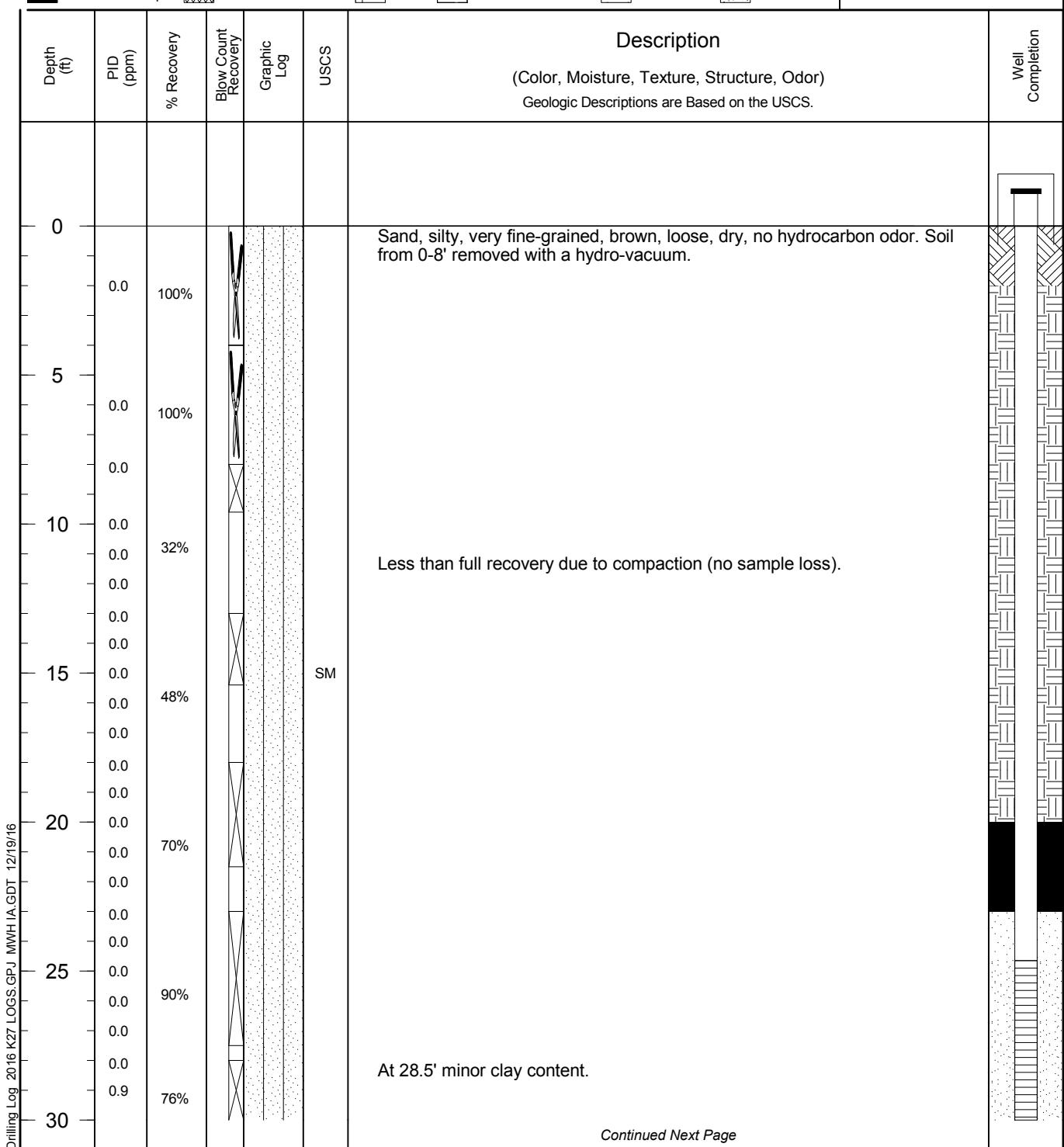
MW-3R

Page: 1 of 2

Project K-27 Line Drip Owner El Paso CGP Company, LLC
 Location Rio Arriba County, New Mexico Project Number 10509761
 Surface Elev. 6258.58 ft North 1978399.4 East 1278635.469
 Top of Casing 6261.09 ft Water Level Initial 6224.58 09/23/16
00:00 Static 6223.14
 Hole Depth 50.0 ft Screen: Diameter 2 in Length 25.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 24.7 ft Type PVC
 Drill Co. National EWP Drilling Method Hollow Stem Auger Sand Pack 10/20 Silica
 Driller Gary Driller Reg. # 1210 Log By Brad Barton
 Start Date 9/23/2016 Completion Date 9/26/2016 Checked By S. Varsa

COMMENTS
 Surface is dirt with minor vegetation.

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack



Continued Next Page

**MWH****Drilling Log**

Monitoring Well

MW-3R

Page: 2 of 2

Project K-27 Line DripOwner El Paso CGP Company, LLCLocation Rio Arriba County, New MexicoProject Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
30	1.2 0.9 2.1 0.1	76% MW-3R 31- 32'			SM		
35	0.0	52%				Sand, fine to medium-grained, clayey, brown, wet, no hydrocarbon odor.	
40	0.0	60%			SC		
45	0.0	100%				At 38.5' color changes to dark brown, minor calcareous cement noted.	
50	0.0	100%			CH	At 43.5' sand is saturated. Clay, brown to dark brown, wet, medium stiff, no hydrocarbon odor, high plasticity.	
55						End of boring = 50'.	
60							
65							
70							



MWH

Drilling Log

Monitoring Well

MW-5

Page: 1 of 2

Project K-27 Line Drip
 Location Rio Arriba County, New Mexico

Owner El Paso CGP Company, LLC
 Project Number 10509761

Surface Elev. 6261.60 ft North 1978339.668 East 1278657.165

Top of Casing 6264.50 ft Water Level Initial 6225.6 09/22/16
 00:00 Static 6222.71

Hole Depth 50.0 ft Screen: Diameter 2 in Length 25.0 ft Type/Size PVC/0.01 in

Hole Diameter 8.25 in Casing: Diameter 2 in Length 24.7 ft Type PVC

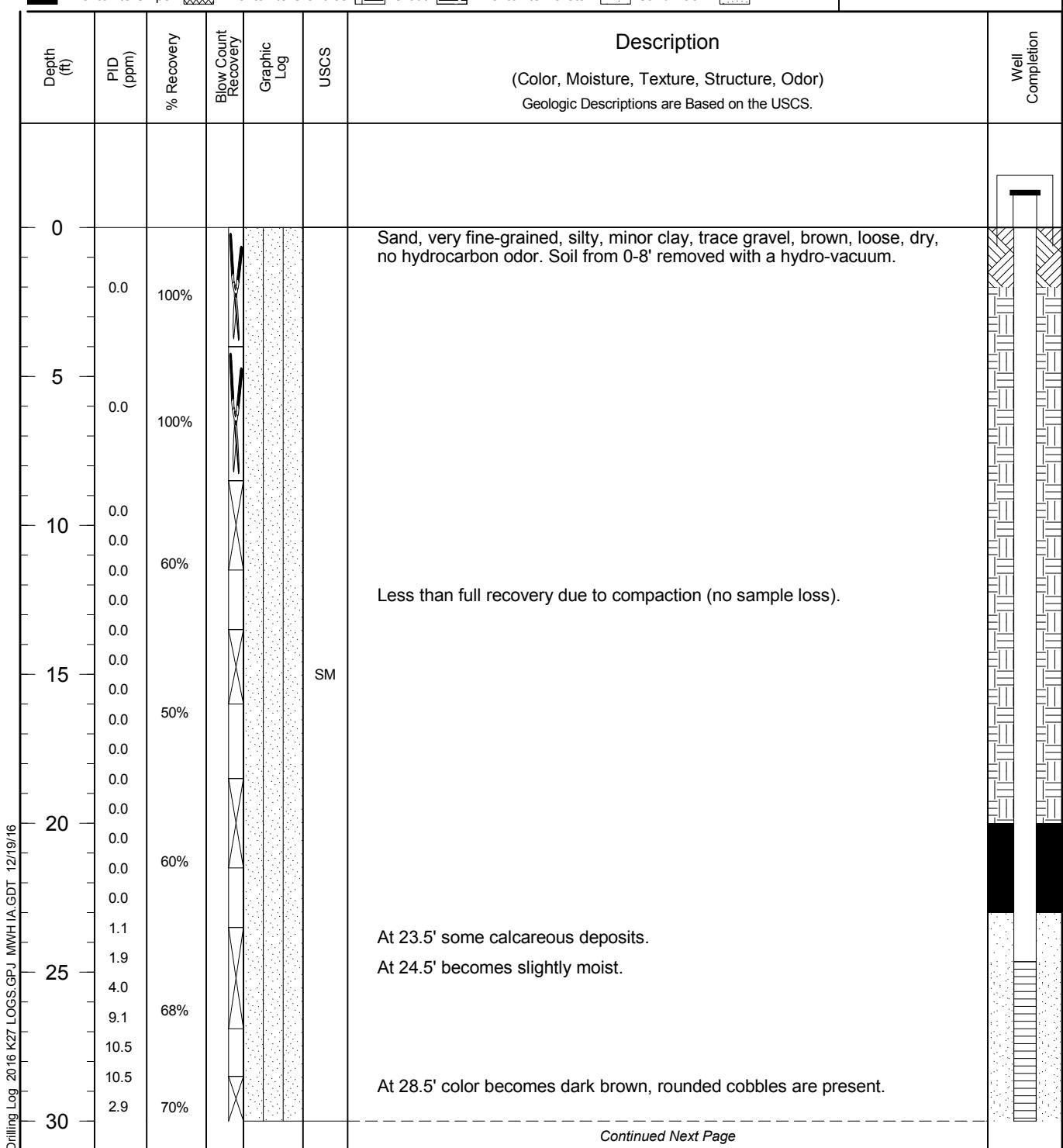
Drill Co. National EWP Drilling Method Hollow-Stem Auger Sand Pack 10/20 Silica

Driller Gary Driller Reg. # 1210 Log By Brad Barton

Start Date 9/22/2016 Completion Date 9/26/2016 Checked By S. Varsa

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack

COMMENTS
 18' from Enterprise line. Surface is dirt with minor vegetation.



Continued Next Page



MWH

Drilling Log

Monitoring Well

MW-5

Page: 2 of 2

Project K-27 Line Drip

Owner El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
30	7.6 3.8 2.8 7.4 6.4 35 25.8 53.0 321.1 290.9 11.3 75.7 27.0 13.4 2.0 1.1 2.2 15.7 2.8 0.0 0.0 50	70% 72% MW-5 36-37'			SP SC SP	<p>Sand, very fine-grained, well-sorted, very light brown, loose, slightly moist.</p> <p>Sand, fine-grained, clayey, light brown, moist, no hydrocarbon odor.</p> <p>Sand, well-sorted, brown, moist to very moist, slight to moderate hydrocarbon odor, minor cementation noted in sand, dark gray to black hydrocarbon staining.</p> <p>Sand to sandstone, well-sorted, light olive-brown to brown, very moist, slight hydrocarbon odor decreases below 42'.</p> <p>Shale, dark gray, dry, hard, no hydrocarbon odor.</p>	
40		60%					
45		40%					
55							
60							
65							
70							



MWH

Drilling Log

Monitoring Well

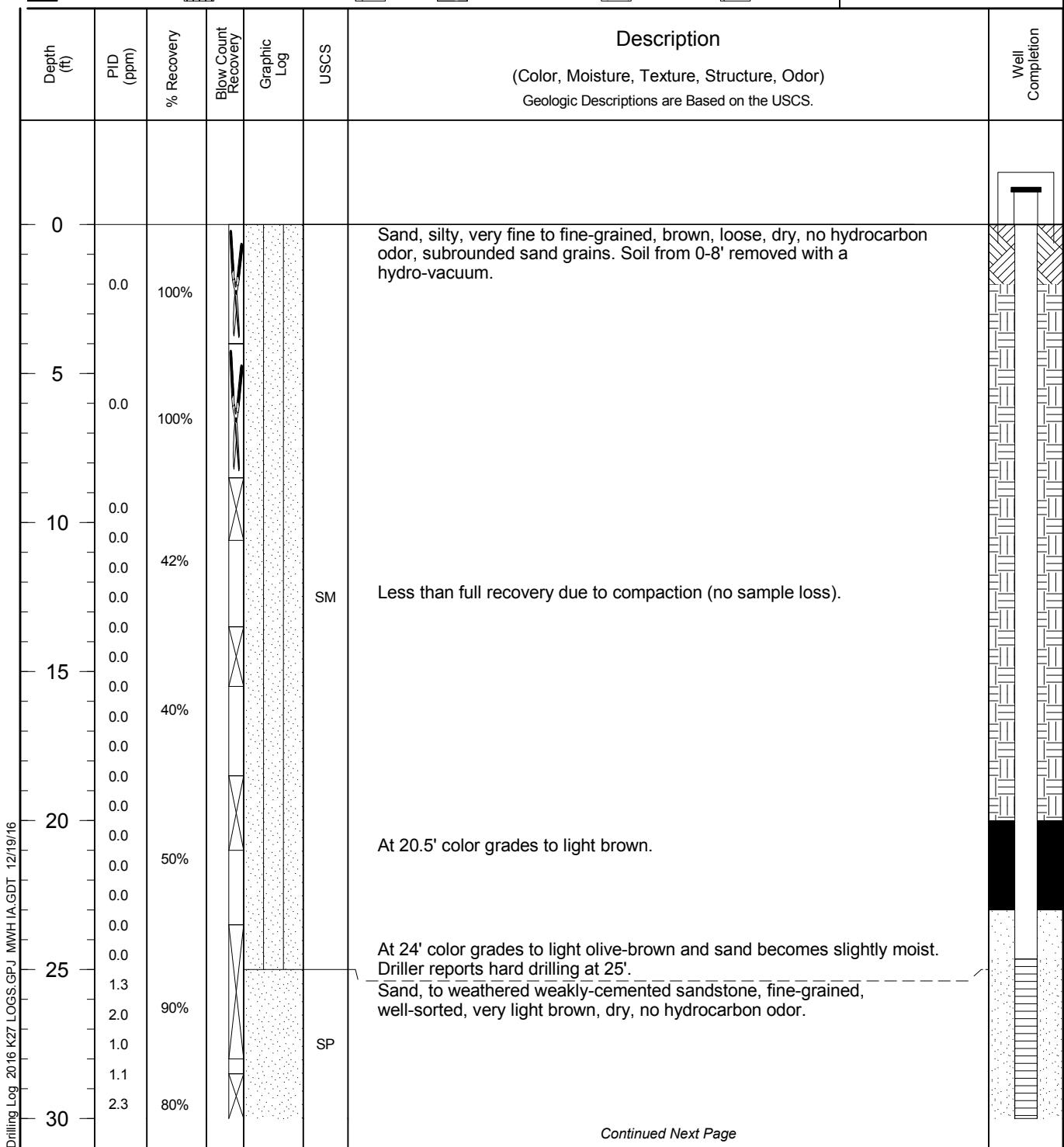
MW-6

Page: 1 of 2

Project K-27 Line Drip Owner El Paso CGP Company, LLC
 Location Rio Arriba County, New Mexico Project Number 10509761
 Surface Elev. 6261.15 ft North 1978302.634 East 1278616.103
 Top of Casing 6263.51 ft Water Level Initial 6223.15 09/22/16
00:00 Static 6222.99
 Hole Depth 50.0 ft Screen: Diameter 2 in Length 25.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 24.7 ft Type PVC
 Drill Co. National EWP Drilling Method Hollow-Stem Auger Sand Pack 10/20 Silica
 Driller Gary Driller Reg. # 1210 Log By Brad Barton
 Start Date 9/22/2016 Completion Date 9/26/2016 Checked By S. Varsa

COMMENTS
 Surface is dirt with minor vegetation.

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack





MWH

Drilling Log

Monitoring Well

MW-6

Page: 2 of 2

Project K-27 Line Drip

Owner El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
30	9.9 10.5 29.5 14.3 565.5 1246 2484 3091 36.5'- 37.5'	80%				<i>Continued</i>	
35					SP	At 30' driller reports very hard drilling, gravels present, some calcareous deposits/staining present. At 33.5' cuttings begin to appear black (lasts until 38.5'), moderate hydrocarbon odor present at 34', black staining and a strong hydrocarbon odor present at 36'.	
40	50.3 153.6 456.4 308.7 284.8 24.8 54.5 67.0 54.7 47.4 0.6 7.4 10.4	50% MW-6 36.5'- 37.5'	54%			At 39' sand is brown and moist, moderate hydrocarbon odor but no staining is present. Shale, dark olive-gray, hard, dry to slightly moist, none to very slight hydrocarbon odor.	
45		60%					
50		100%				At 49' color grades to light olive-brown, material is dry, no hydrocarbon odor. End of boring = 50'.	
55							
60							
65							
70							



MWH

Drilling Log

Monitoring Well

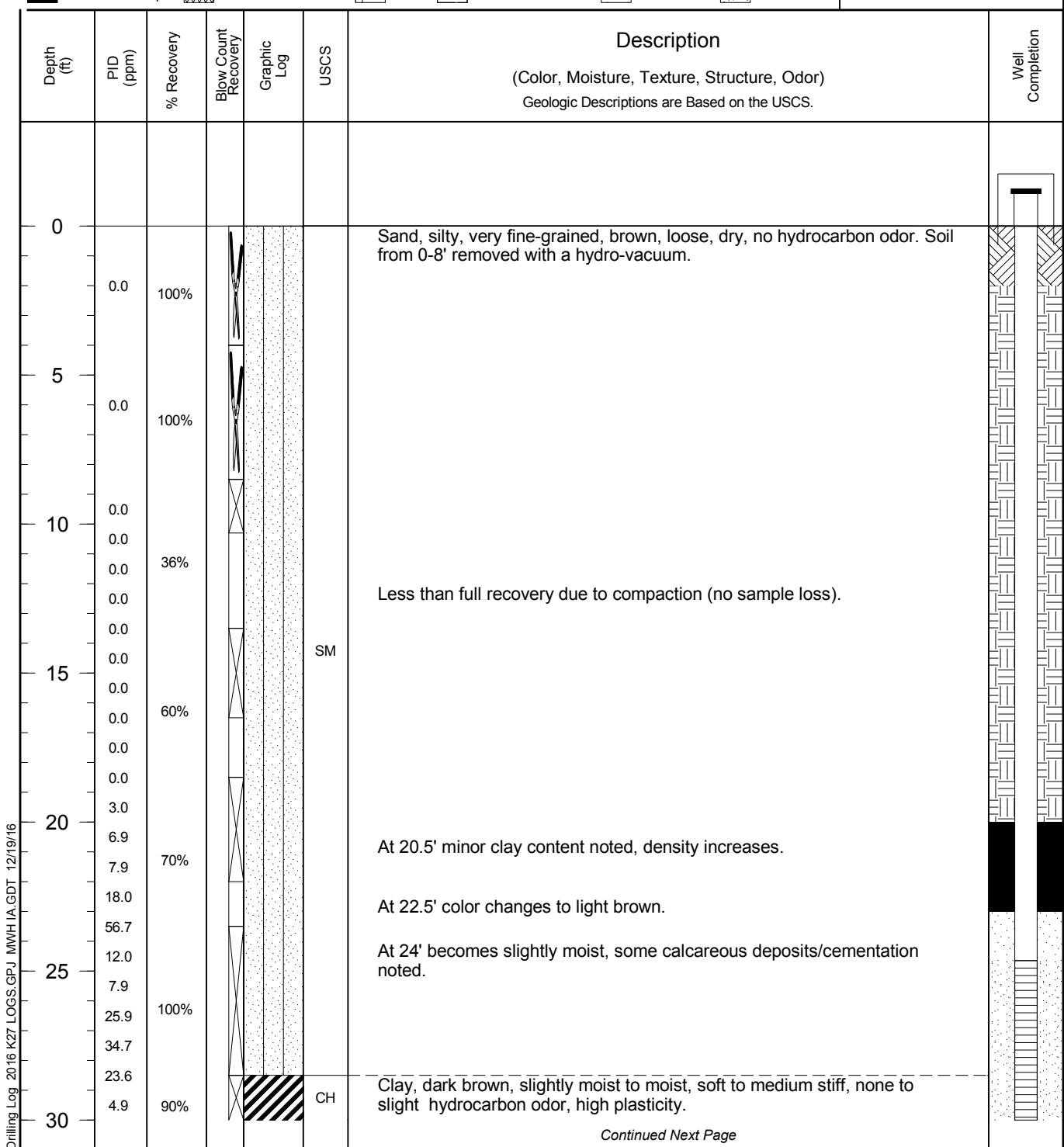
MW-7

Page: 1 of 2

Project K-27 Line Drip Owner El Paso CGP Company, LLC
 Location Rio Arriba County, New Mexico Project Number 10509761
 Surface Elev. 6259.24 ft North 1978335.44 East 1278578.132
 Top of Casing 6262.84 ft Water Level Initial 6223.24 09/22/16
00:00 Static 6224.38
 Hole Depth 50.0 ft Screen: Diameter 2 in Length 25.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 24.7 ft Type PVC
 Drill Co. National EWP Drilling Method Hollow-Stem Auger Sand Pack 10/20 Silica
 Driller Gary Driller Reg. # 1210 Log By Brad Barton
 Start Date 9/22/2016 Completion Date 9/28/2016 Checked By S. Varsa

COMMENTS
 Surface is dirt with minor vegetation.

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack





MWH

Drilling Log

Monitoring Well

MW-7

Page: 2 of 2

Project K-27 Line Drip

Owner El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
30							
9.6							
32.1							
44.6							
80.9							
953.6	MW-7	90%			CH		
2774	34.5-35.5'						
2690							
974.5							
92.8							
1.1							
40							
1.0							
4.9							
1.2							
2.9							
0.7							
0.8							
0.7							
0.8							
25.1							
2.5							
15.0							
0.0							
0.0							
45							
0.0							
0.0							
50							
55							
60							
65							
70							



MWH

Drilling Log

Monitoring Well

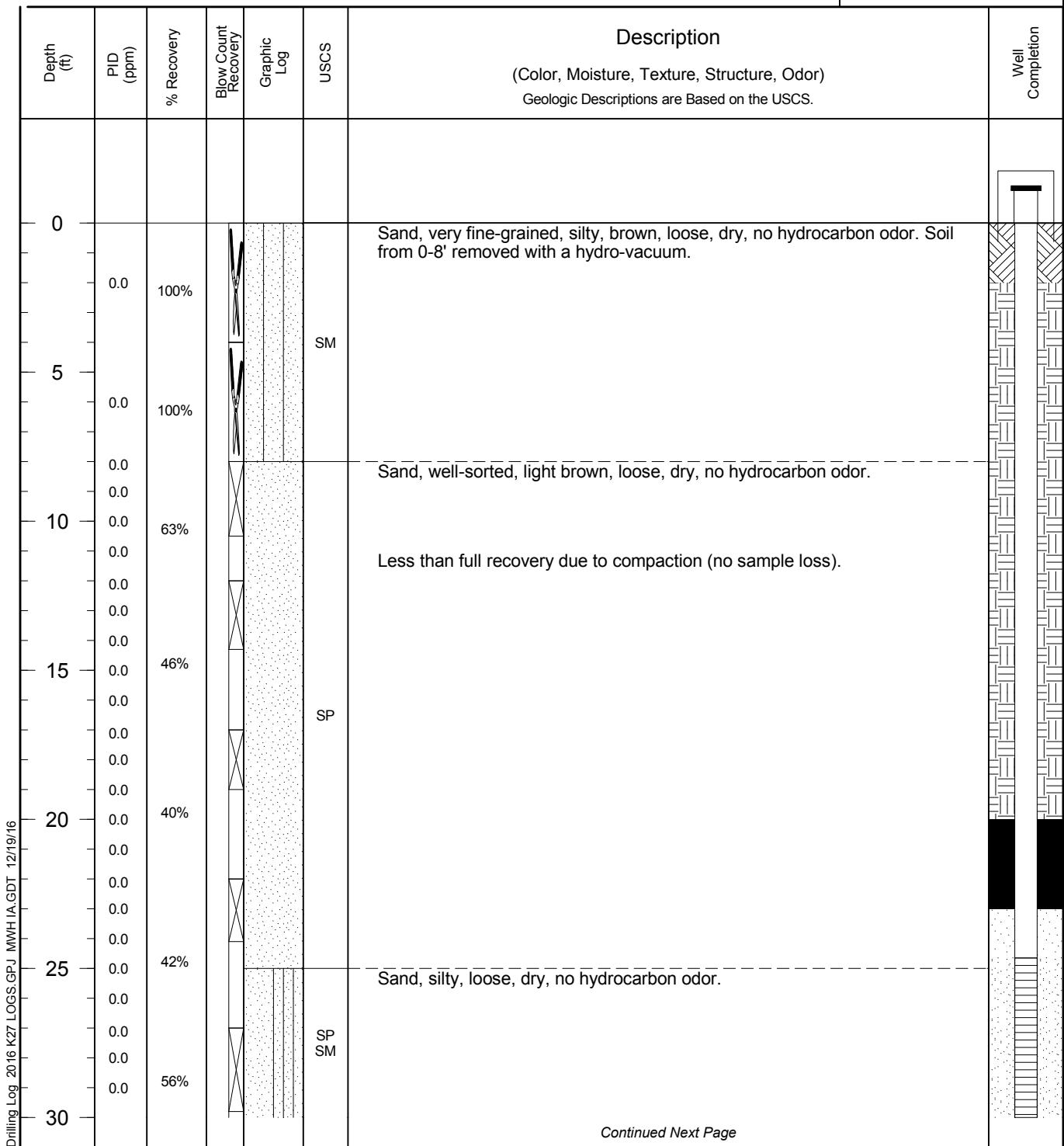
MW-8

Page: 1 of 2

Project K-27 Line Drip Owner El Paso CGP Company, LLC
 Location Rio Arriba County, New Mexico Project Number 10509761
 Surface Elev. 6257.83 ft North 1978403.826 East 1278525.087
 Top of Casing 6260.36 ft Water Level Initial 6223.83 09/23/16
00:00 Static 6223.3
 Hole Depth 51.5 ft Screen: Diameter 2 in Length 25.0 ft Type/Size PVC/0.01 in
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 24.7 ft Type PVC
 Drill Co. National EWP Drilling Method Hollow-Stem Auger Sand Pack 10/20 Silica
 Driller Gary Driller Reg. # 1210 Log By Brad Barton
 Start Date 9/23/2016 Completion Date 9/28/2016 Checked By S. Varsa

COMMENTS
 Surface is dirt with heavy vegetation.

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack





MWH

Drilling Log

Monitoring Well

MW-8

Page: 2 of 2

Project K-27 Line Drip

Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico*

Project Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
<i>Continued</i>							
30	0.0				SP SM	Sand, fine to medium-grained, well-sorted, loose, slightly moist to moist, water present at 34', none to slight hydrocarbon odor at 34.5'.	
35	0.0	56%	MW-8 33-34'				
35	0.0	44%				At 35.5' color is dark gray to black from hydrocarbon staining, sand is saturated, moderate hydrocarbon odor.	
40	0.0	60%				Sand, fine to medium-grained, clayey, brown, wet, no hydrocarbon odor.	
45	0.0	70%			SC		
45	0.0					Sand, poorly-sorted, loose, wet, no hydrocarbon odor.	
50	0.0	90%			SW		
51.5						End of boring = 51.5'.	



MWH

Drilling Log

Soil Boring

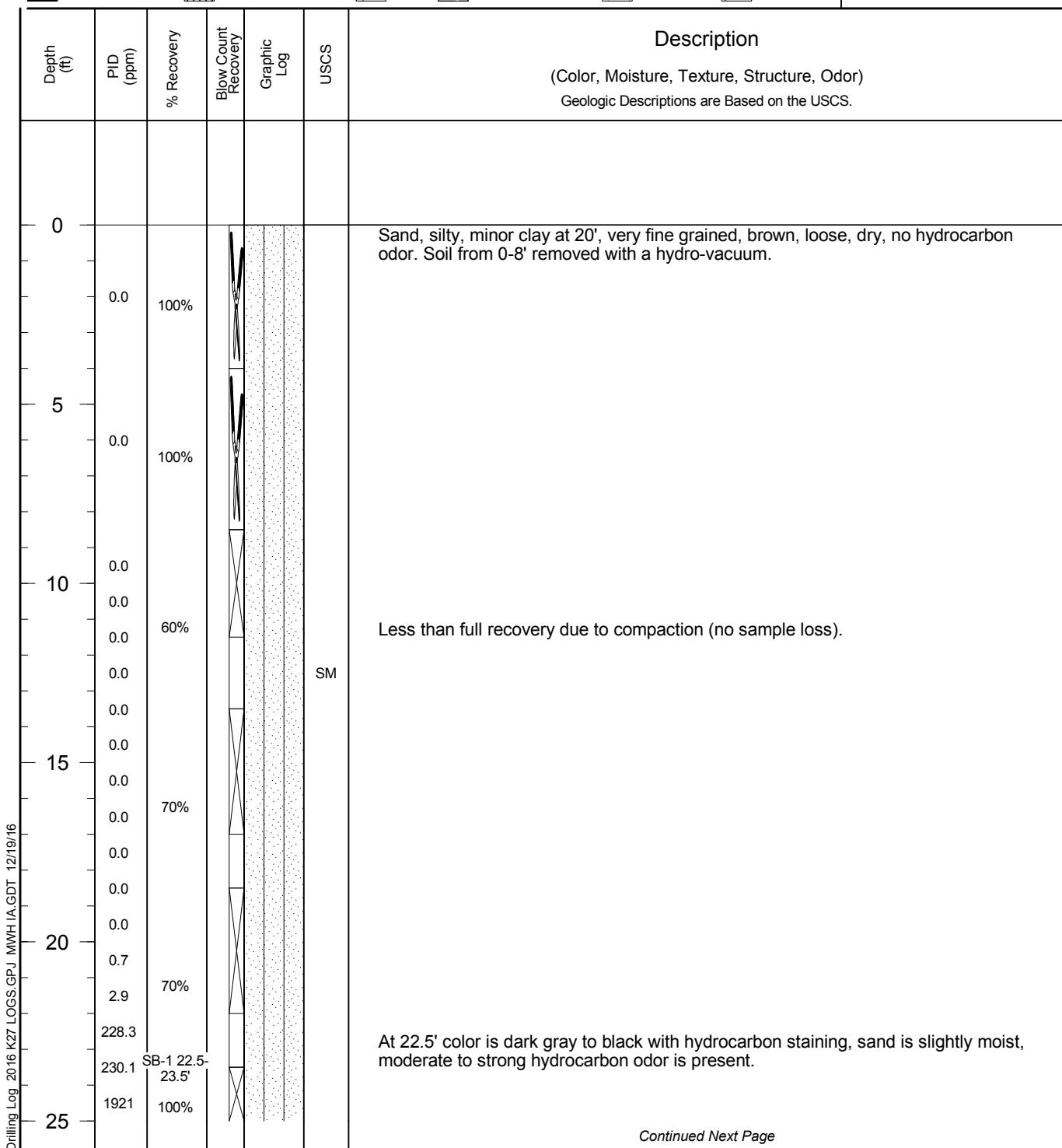
SB-1

Page: 1 of 2

Project K-27 Line Drip Owner El Paso CGP Company, LLC
 Location Rio Arriba County, New Mexico Project Number 10509761
 Surface Elev. 6259.77 ft North 1978323.14 East 1278605.535
 Top of Casing NA Water Level Initial 38.0ft 09/22/16
00:00 Static NA
 Hole Depth 40.0 ft 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 Gary Driller Reg. # 1210 Log By Brad Barton
 Start Date 9/22/2016 Completion Date 9/22/2016 Checked By S. Varsa

COMMENTS
 7.5' from MW-1. Surface is dirt with minor vegetation.

Bentonite Chips Bentonite Granules Grout Bentonite Pellets Sand Pack PP Sand Pack



Continued Next Page

**MWH****Drilling Log**

Soil Boring

SB-1

Page: 2 of 2

Project K-27 Line DripOwner El Paso CGP Company, LLCLocation Rio Arriba County, New MexicoProject Number 10509761

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
25						<i>Continued</i>
1943						
1845	100%				SM	
1567						
1673						Sand, fine-grained, clayey, dark gray to black with hydrocarbon staining, slightly moist, moderate to strong hydrocarbon odor.
1727						
30						
1628						
1629	84%					
1614						
1638					SC	
1016						
1564						
1586	60%					
1445						
1497					SP	Sand to sandstone, medium-grained, well-sorted, dark gray to black with hydrocarbon staining grading to olive-brown at 38.5, weakly to moderately cemented, wet, strong hydrocarbon odor.
60.9	100%					
28.8						
40						
45						
50						
55						

APPENDIX B

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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: 400-127781-1

Client Project/Site: K27 LD072

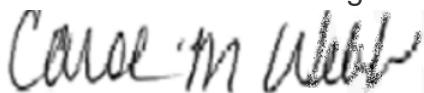
For:

MWH Americas Inc

11153 Aurora Avenue

Des Moines, Iowa 50322-7904

Attn: Clint Oberbroeckling



Authorized for release by:

10/11/2016 1:15:11 PM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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

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

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Definitions/Glossary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

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)

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Case Narrative

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Job ID: 400-127781-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-127781-1

Comments

No additional comments.

Receipt

The samples were received on 9/27/2016 10:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0° C.

HPLC/IC

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-324440 and analytical batch 400-325111 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following samples were diluted due to organic/ gas odor in soil samples: MW-5 (36-37) (400-127781-1), MW-6 (36.5-37.5) (400-127781-2), MW-7 (34.5-35.5) (400-127781-3), MW-2R (32.5-33.5) (400-127781-4), MW-3R (31-32) (400-127781-5), MW-8 (33-34) (400-127781-6), SB-1 (22.5-23.5) (400-127781-7), SB-1 (24.5-25.5) (400-127781-8), SB-1 (28.5-29.5) (400-127781-9), (400-127781-A-1-D MS) and (400-127781-A-1-E MSD). Elevated reporting limits (RL) are provided.

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

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-324494 and analytical batch 400-324712 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Lab Admin

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

Detection Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-5 (36-37)

Lab Sample ID: 400-127781-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	38		5.3	mg/Kg	50	⊗	8015B	Total/NA
Ethylbenzene	0.28		0.053	mg/Kg	50	⊗	8021B	Total/NA
C10-C28	9.4		5.7	mg/Kg	1	⊗	8015B	Total/NA

Client Sample ID: MW-6 (36.5-37.5)

Lab Sample ID: 400-127781-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	640		51	mg/Kg	500	⊗	8015B	Total/NA
Benzene	0.91		0.10	mg/Kg	100	⊗	8021B	Total/NA
Ethylbenzene	3.1		0.10	mg/Kg	100	⊗	8021B	Total/NA
Toluene	2.2		0.51	mg/Kg	100	⊗	8021B	Total/NA
Xylenes, Total	21		0.51	mg/Kg	100	⊗	8021B	Total/NA
C10-C28	150		5.5	mg/Kg	1	⊗	8015B	Total/NA

Client Sample ID: MW-7 (34.5-35.5)

Lab Sample ID: 400-127781-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	2000		120	mg/Kg	1000	⊗	8015B	Total/NA
Benzene	4.0		0.12	mg/Kg	100	⊗	8021B	Total/NA
Ethylbenzene	7.7		0.12	mg/Kg	100	⊗	8021B	Total/NA
Toluene	4.9		0.58	mg/Kg	100	⊗	8021B	Total/NA
Xylenes, Total	25		0.58	mg/Kg	100	⊗	8021B	Total/NA
C10-C28	110		5.9	mg/Kg	1	⊗	8015B	Total/NA

Client Sample ID: MW-2R (32.5-33.5)

Lab Sample ID: 400-127781-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	1100		55	mg/Kg	500	⊗	8015B	Total/NA
Benzene	0.55		0.11	mg/Kg	100	⊗	8021B	Total/NA
Ethylbenzene	4.3		0.11	mg/Kg	100	⊗	8021B	Total/NA
Toluene	4.2		0.55	mg/Kg	100	⊗	8021B	Total/NA
Xylenes, Total	23		0.55	mg/Kg	100	⊗	8021B	Total/NA
C10-C28	190		5.5	mg/Kg	1	⊗	8015B	Total/NA

Client Sample ID: MW-3R (31-32)

Lab Sample ID: 400-127781-5

No Detections.

Client Sample ID: MW-8 (33-34)

Lab Sample ID: 400-127781-6

No Detections.

Client Sample ID: SB-1 (22.5-23.5)

Lab Sample ID: 400-127781-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	21		5.2	mg/Kg	50	⊗	8015B	Total/NA
Ethylbenzene	0.073		0.052	mg/Kg	50	⊗	8021B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: SB-1 (22.5-23.5) (Continued)

Lab Sample ID: 400-127781-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.37		0.26	mg/Kg	50	⊗	8021B	Total/NA
C10-C28	36		5.3	mg/Kg	1	⊗	8015B	Total/NA

Client Sample ID: SB-1 (24.5-25.5)

Lab Sample ID: 400-127781-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	6900		520	mg/Kg	5000	⊗	8015B	Total/NA
Benzene	20		0.52	mg/Kg	500	⊗	8021B	Total/NA
Ethylbenzene	30		0.52	mg/Kg	500	⊗	8021B	Total/NA
Toluene	120		2.6	mg/Kg	500	⊗	8021B	Total/NA
Xylenes, Total	150		2.6	mg/Kg	500	⊗	8021B	Total/NA
C10-C28	220		5.5	mg/Kg	1	⊗	8015B	Total/NA
C28-C35	24		5.5	mg/Kg	1	⊗	8015B	Total/NA

Client Sample ID: SB-1 (28.5-29.5)

Lab Sample ID: 400-127781-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) C6-C10	6400		520	mg/Kg	5000	⊗	8015B	Total/NA
Benzene	25		0.52	mg/Kg	500	⊗	8021B	Total/NA
Ethylbenzene	24		0.52	mg/Kg	500	⊗	8021B	Total/NA
Toluene	120		2.6	mg/Kg	500	⊗	8021B	Total/NA
Xylenes, Total	120		2.6	mg/Kg	500	⊗	8021B	Total/NA
C10-C28	120	F1	5.5	mg/Kg	1	⊗	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-127781-1	MW-5 (36-37)	Solid	09/22/16 16:30	09/27/16 10:11
400-127781-2	MW-6 (36.5-37.5)	Solid	09/23/16 10:05	09/27/16 10:11
400-127781-3	MW-7 (34.5-35.5)	Solid	09/23/16 13:35	09/27/16 10:11
400-127781-4	MW-2R (32.5-33.5)	Solid	09/24/16 08:45	09/27/16 10:11
400-127781-5	MW-3R (31-32)	Solid	09/24/16 12:05	09/27/16 10:11
400-127781-6	MW-8 (33-34)	Solid	09/25/16 09:00	09/27/16 10:11
400-127781-7	SB-1 (22.5-23.5)	Solid	09/25/16 12:40	09/27/16 10:11
400-127781-8	SB-1 (24.5-25.5)	Solid	09/25/16 12:50	09/27/16 10:11
400-127781-9	SB-1 (28.5-29.5)	Solid	09/25/16 13:00	09/27/16 10:11

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-5 (36-37)

Date Collected: 09/22/16 16:30

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-1

Matrix: Solid

Percent Solids: 89.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	38		5.3	mg/Kg	✉	09/28/16 16:20	09/30/16 14:16	50
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	96		65 - 125			09/28/16 16:20	09/30/16 14:16	50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.053		0.053	mg/Kg	✉	09/28/16 16:20	10/03/16 10:53	50
Ethylbenzene	0.28		0.053	mg/Kg	✉	09/28/16 16:20	10/03/16 10:53	50
Toluene	<0.27		0.27	mg/Kg	✉	09/28/16 16:20	10/03/16 10:53	50
Xylenes, Total	<0.27		0.27	mg/Kg	✉	09/28/16 16:20	10/03/16 10:53	50
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	93		40 - 150			09/28/16 16:20	10/03/16 10:53	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	9.4		5.7	mg/Kg	✉	09/28/16 14:14	09/29/16 18:47	1
C28-C35	<5.7		5.7	mg/Kg	✉	09/28/16 14:14	09/29/16 18:47	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	83		27 - 151			09/28/16 14:14	09/29/16 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<220	F1 F2	220	mg/Kg	✉		09/30/16 16:22	10

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-6 (36.5-37.5)

Date Collected: 09/23/16 10:05

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-2

Matrix: Solid

Percent Solids: 90.6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	640		51	mg/Kg	✉	09/28/16 16:20	09/30/16 18:25	500
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	91		65 - 125			09/28/16 16:20	09/30/16 18:25	500

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.91		0.10	mg/Kg	✉	09/28/16 16:20	10/03/16 11:20	100
Ethylbenzene	3.1		0.10	mg/Kg	✉	09/28/16 16:20	10/03/16 11:20	100
Toluene	2.2		0.51	mg/Kg	✉	09/28/16 16:20	10/03/16 11:20	100
Xylenes, Total	21		0.51	mg/Kg	✉	09/28/16 16:20	10/03/16 11:20	100
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	93		40 - 150			09/28/16 16:20	10/03/16 11:20	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	150		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 18:58	1
C28-C35	<5.5		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 18:58	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	84		27 - 151			09/28/16 14:14	09/29/16 18:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<220		220	mg/Kg	✉		09/30/16 18:16	10

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-7 (34.5-35.5)

Date Collected: 09/23/16 13:35

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-3

Matrix: Solid

Percent Solids: 83.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	2000		120	mg/Kg	✉	09/28/16 16:20	09/30/16 17:28	1000
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	85		65 - 125			09/28/16 16:20	09/30/16 17:28	1000

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.0		0.12	mg/Kg	✉	09/28/16 16:20	10/03/16 11:48	100
Ethylbenzene	7.7		0.12	mg/Kg	✉	09/28/16 16:20	10/03/16 11:48	100
Toluene	4.9		0.58	mg/Kg	✉	09/28/16 16:20	10/03/16 11:48	100
Xylenes, Total	25		0.58	mg/Kg	✉	09/28/16 16:20	10/03/16 11:48	100
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	66		40 - 150			09/28/16 16:20	10/03/16 11:48	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	110		5.9	mg/Kg	✉	09/28/16 14:14	09/29/16 19:09	1
C28-C35	<5.9		5.9	mg/Kg	✉	09/28/16 14:14	09/29/16 19:09	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	89		27 - 151			09/28/16 14:14	09/29/16 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<240		240	mg/Kg	✉		09/30/16 18:38	10

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-2R (32.5-33.5)

Date Collected: 09/24/16 08:45

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-4

Matrix: Solid

Percent Solids: 90.5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	1100		55	mg/Kg	✉	09/28/16 16:20	09/30/16 18:52	500
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	91		65 - 125			09/28/16 16:20	09/30/16 18:52	500

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.55		0.11	mg/Kg	✉	09/28/16 16:20	10/03/16 12:15	100
Ethylbenzene	4.3		0.11	mg/Kg	✉	09/28/16 16:20	10/03/16 12:15	100
Toluene	4.2		0.55	mg/Kg	✉	09/28/16 16:20	10/03/16 12:15	100
Xylenes, Total	23		0.55	mg/Kg	✉	09/28/16 16:20	10/03/16 12:15	100
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	78		40 - 150			09/28/16 16:20	10/03/16 12:15	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	190		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 19:20	1
C28-C35	<5.5		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 19:20	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	89		27 - 151			09/28/16 14:14	09/29/16 19:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<220		220	mg/Kg	✉		09/30/16 19:01	10

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-3R (31-32)

Date Collected: 09/24/16 12:05

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-5

Matrix: Solid

Percent Solids: 86.6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	<0.11		0.11	mg/Kg	✉	09/28/16 16:20	09/29/16 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	90		65 - 125			09/28/16 16:20	09/29/16 07:37	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0011		0.0011	mg/Kg	✉	09/28/16 16:20	09/29/16 07:37	1
Ethylbenzene	<0.0011		0.0011	mg/Kg	✉	09/28/16 16:20	09/29/16 07:37	1
Toluene	<0.0054		0.0054	mg/Kg	✉	09/28/16 16:20	09/29/16 07:37	1
Xylenes, Total	<0.0054		0.0054	mg/Kg	✉	09/28/16 16:20	09/29/16 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	92		40 - 150			09/28/16 16:20	09/29/16 07:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.7		5.7	mg/Kg	✉	09/28/16 14:14	09/29/16 19:31	1
C28-C35	<5.7		5.7	mg/Kg	✉	09/28/16 14:14	09/29/16 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	82		27 - 151			09/28/16 14:14	09/29/16 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<230		230	mg/Kg	✉		09/30/16 19:24	10

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-8 (33-34)

Date Collected: 09/25/16 09:00
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-6

Matrix: Solid
Percent Solids: 95.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	<0.099		0.099	mg/Kg	⊗	09/28/16 16:20	09/29/16 08:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	90		65 - 125			09/28/16 16:20	09/29/16 08:12	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00099		0.00099	mg/Kg	⊗	09/28/16 16:20	09/29/16 08:12	1
Ethylbenzene	<0.00099		0.00099	mg/Kg	⊗	09/28/16 16:20	09/29/16 08:12	1
Toluene	<0.0050		0.0050	mg/Kg	⊗	09/28/16 16:20	09/29/16 08:12	1
Xylenes, Total	<0.0050		0.0050	mg/Kg	⊗	09/28/16 16:20	09/29/16 08:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	92		40 - 150			09/28/16 16:20	09/29/16 08:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	<5.3		5.3	mg/Kg	⊗	09/28/16 14:14	09/29/16 19:53	1
C28-C35	<5.3		5.3	mg/Kg	⊗	09/28/16 14:14	09/29/16 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	86		27 - 151			09/28/16 14:14	09/29/16 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<210		210	mg/Kg	⊗		09/30/16 19:47	10

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: SB-1 (22.5-23.5)

Lab Sample ID: 400-127781-7

Date Collected: 09/25/16 12:40

Matrix: Solid

Date Received: 09/27/16 10:11

Percent Solids: 91.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	21		5.2	mg/Kg	✉	09/28/16 16:20	09/30/16 16:06	50
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	98		65 - 125			09/28/16 16:20	09/30/16 16:06	50

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.052		0.052	mg/Kg	✉	09/28/16 16:20	10/03/16 10:26	50
Ethylbenzene	0.073		0.052	mg/Kg	✉	09/28/16 16:20	10/03/16 10:26	50
Toluene	<0.26		0.26	mg/Kg	✉	09/28/16 16:20	10/03/16 10:26	50
Xylenes, Total	0.37		0.26	mg/Kg	✉	09/28/16 16:20	10/03/16 10:26	50
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	93		40 - 150			09/28/16 16:20	10/03/16 10:26	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	36		5.3	mg/Kg	✉	09/28/16 14:14	09/29/16 20:04	1
C28-C35	<5.3		5.3	mg/Kg	✉	09/28/16 14:14	09/29/16 20:04	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	65		27 - 151			09/28/16 14:14	09/29/16 20:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<220		220	mg/Kg	✉		09/30/16 20:10	10

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: SB-1 (24.5-25.5)

Date Collected: 09/25/16 12:50

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-8

Matrix: Solid

Percent Solids: 88.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	6900		520	mg/Kg	✉	09/28/16 16:20	09/30/16 19:19	5000
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	99		65 - 125			09/28/16 16:20	09/30/16 19:19	5000

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20		0.52	mg/Kg	✉	09/28/16 16:20	10/03/16 12:43	500
Ethylbenzene	30		0.52	mg/Kg	✉	09/28/16 16:20	10/03/16 12:43	500
Toluene	120		2.6	mg/Kg	✉	09/28/16 16:20	10/03/16 12:43	500
Xylenes, Total	150		2.6	mg/Kg	✉	09/28/16 16:20	10/03/16 12:43	500
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	86		40 - 150			09/28/16 16:20	10/03/16 12:43	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	220		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 20:15	1
C28-C35	24		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 20:15	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	110		27 - 151			09/28/16 14:14	09/29/16 20:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<220		220	mg/Kg	✉		09/30/16 20:33	10

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: SB-1 (28.5-29.5)

Date Collected: 09/25/16 13:00

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-9

Matrix: Solid

Percent Solids: 92.5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	6400		520	mg/Kg	✉	09/28/16 16:20	09/30/16 19:47	5000
Surrogate a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	97		65 - 125			09/28/16 16:20	09/30/16 19:47	5000

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	25		0.52	mg/Kg	✉	09/28/16 16:20	10/03/16 13:10	500
Ethylbenzene	24		0.52	mg/Kg	✉	09/28/16 16:20	10/03/16 13:10	500
Toluene	120		2.6	mg/Kg	✉	09/28/16 16:20	10/03/16 13:10	500
Xylenes, Total	120		2.6	mg/Kg	✉	09/28/16 16:20	10/03/16 13:10	500
Surrogate a,a,a-Trifluorotoluene (pid)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	85		40 - 150			09/28/16 16:20	10/03/16 13:10	500

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	120	F1	5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 18:36	1
C28-C35	<5.5		5.5	mg/Kg	✉	09/28/16 14:14	09/29/16 18:36	1
Surrogate o-Terphenyl	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	90		27 - 151			09/28/16 14:14	09/29/16 18:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<220		220	mg/Kg	✉		09/30/16 20:55	10

TestAmerica Pensacola

QC Association Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

GC VOA

Prep Batch: 324511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Total/NA	Solid	5035	1
400-127781-2	MW-6 (36.5-37.5)	Total/NA	Solid	5035	2
400-127781-3	MW-7 (34.5-35.5)	Total/NA	Solid	5035	3
400-127781-4	MW-2R (32.5-33.5)	Total/NA	Solid	5035	4
400-127781-7	SB-1 (22.5-23.5)	Total/NA	Solid	5035	5
400-127781-8	SB-1 (24.5-25.5)	Total/NA	Solid	5035	6
400-127781-9	SB-1 (28.5-29.5)	Total/NA	Solid	5035	7
MB 400-324511/9-A	Method Blank	Total/NA	Solid	5035	8
LCS 400-324511/14-A	Lab Control Sample	Total/NA	Solid	5035	9
LCS 400-324511/8-A	Lab Control Sample	Total/NA	Solid	5035	10
400-127781-A-7-C MS	400-127781-A-7-C MS	Total/NA	Solid	5035	11
400-127781-A-7-D MSD	400-127781-A-7-D MSD	Total/NA	Solid	5035	12
400-127816-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	13
400-127816-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	14

Prep Batch: 324513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-5	MW-3R (31-32)	Total/NA	Solid	5035	1
400-127781-6	MW-8 (33-34)	Total/NA	Solid	5035	2
MB 400-324513/1-A	Method Blank	Total/NA	Solid	5035	3
LCS 400-324513/2-A	Lab Control Sample	Total/NA	Solid	5035	4
LCS 400-324513/3-A	Lab Control Sample	Total/NA	Solid	5035	5
400-127781-5 MS	MW-3R (31-32)	Total/NA	Solid	5035	6
400-127781-5 MS	MW-3R (31-32)	Total/NA	Solid	5035	7
400-127781-5 MSD	MW-3R (31-32)	Total/NA	Solid	5035	8
400-127781-5 MSD	MW-3R (31-32)	Total/NA	Solid	5035	9

Analysis Batch: 324519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Total/NA	Solid	8015B	1
400-127781-2	MW-6 (36.5-37.5)	Total/NA	Solid	8015B	2
400-127781-3	MW-7 (34.5-35.5)	Total/NA	Solid	8015B	3
400-127781-4	MW-2R (32.5-33.5)	Total/NA	Solid	8015B	4
400-127781-7	SB-1 (22.5-23.5)	Total/NA	Solid	8015B	5
400-127781-8	SB-1 (24.5-25.5)	Total/NA	Solid	8015B	6
400-127781-9	SB-1 (28.5-29.5)	Total/NA	Solid	8015B	7
MB 400-324511/9-A	Method Blank	Total/NA	Solid	8015B	8
LCS 400-324511/8-A	Lab Control Sample	Total/NA	Solid	8015B	9
400-127816-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B	10
400-127816-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	11

Analysis Batch: 324528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-5	MW-3R (31-32)	Total/NA	Solid	8015B	1
400-127781-6	MW-8 (33-34)	Total/NA	Solid	8015B	2
MB 400-324513/1-A	Method Blank	Total/NA	Solid	8015B	3
LCS 400-324513/3-A	Lab Control Sample	Total/NA	Solid	8015B	4
400-127781-5 MS	MW-3R (31-32)	Total/NA	Solid	8015B	5
400-127781-5 MSD	MW-3R (31-32)	Total/NA	Solid	8015B	6

TestAmerica Pensacola

QC Association Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

GC VOA (Continued)

Analysis Batch: 324530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-5	MW-3R (31-32)	Total/NA	Solid	8021B	324513
400-127781-6	MW-8 (33-34)	Total/NA	Solid	8021B	324513
MB 400-324513/1-A	Method Blank	Total/NA	Solid	8021B	324513
LCS 400-324513/2-A	Lab Control Sample	Total/NA	Solid	8021B	324513
400-127781-5 MS	MW-3R (31-32)	Total/NA	Solid	8021B	324513
400-127781-5 MSD	MW-3R (31-32)	Total/NA	Solid	8021B	324513

Analysis Batch: 324839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Total/NA	Solid	8021B	324511
400-127781-2	MW-6 (36.5-37.5)	Total/NA	Solid	8021B	324511
400-127781-3	MW-7 (34.5-35.5)	Total/NA	Solid	8021B	324511
400-127781-4	MW-2R (32.5-33.5)	Total/NA	Solid	8021B	324511
400-127781-7	SB-1 (22.5-23.5)	Total/NA	Solid	8021B	324511
400-127781-8	SB-1 (24.5-25.5)	Total/NA	Solid	8021B	324511
400-127781-9	SB-1 (28.5-29.5)	Total/NA	Solid	8021B	324511
LCS 400-324511/14-A	Lab Control Sample	Total/NA	Solid	8021B	324511
400-127781-A-7-C MS	400-127781-A-7-C MS	Total/NA	Solid	8021B	324511
400-127781-A-7-D MSD	400-127781-A-7-D MSD	Total/NA	Solid	8021B	324511

Analysis Batch: 325411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-324511/9-A	Method Blank	Total/NA	Solid	8021B	324511

GC Semi VOA

Prep Batch: 324494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Total/NA	Solid	3546	
400-127781-2	MW-6 (36.5-37.5)	Total/NA	Solid	3546	
400-127781-3	MW-7 (34.5-35.5)	Total/NA	Solid	3546	
400-127781-4	MW-2R (32.5-33.5)	Total/NA	Solid	3546	
400-127781-5	MW-3R (31-32)	Total/NA	Solid	3546	
400-127781-6	MW-8 (33-34)	Total/NA	Solid	3546	
400-127781-7	SB-1 (22.5-23.5)	Total/NA	Solid	3546	
400-127781-8	SB-1 (24.5-25.5)	Total/NA	Solid	3546	
400-127781-9	SB-1 (28.5-29.5)	Total/NA	Solid	3546	
MB 400-324494/13-A	Method Blank	Total/NA	Solid	3546	
LCS 400-324494/12-A	Lab Control Sample	Total/NA	Solid	3546	
400-127781-9 MS	SB-1 (28.5-29.5)	Total/NA	Solid	3546	
400-127781-9 MSD	SB-1 (28.5-29.5)	Total/NA	Solid	3546	

Analysis Batch: 324712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Total/NA	Solid	8015B	324494
400-127781-2	MW-6 (36.5-37.5)	Total/NA	Solid	8015B	324494
400-127781-3	MW-7 (34.5-35.5)	Total/NA	Solid	8015B	324494
400-127781-4	MW-2R (32.5-33.5)	Total/NA	Solid	8015B	324494
400-127781-5	MW-3R (31-32)	Total/NA	Solid	8015B	324494
400-127781-6	MW-8 (33-34)	Total/NA	Solid	8015B	324494

TestAmerica Pensacola

QC Association Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

GC Semi VOA (Continued)

Analysis Batch: 324712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-7	SB-1 (22.5-23.5)	Total/NA	Solid	8015B	324494
400-127781-8	SB-1 (24.5-25.5)	Total/NA	Solid	8015B	324494
400-127781-9	SB-1 (28.5-29.5)	Total/NA	Solid	8015B	324494
MB 400-324494/13-A	Method Blank	Total/NA	Solid	8015B	324494
LCS 400-324494/12-A	Lab Control Sample	Total/NA	Solid	8015B	324494
400-127781-9 MS	SB-1 (28.5-29.5)	Total/NA	Solid	8015B	324494
400-127781-9 MSD	SB-1 (28.5-29.5)	Total/NA	Solid	8015B	324494

HPLC/IC

Leach Batch: 324440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Soluble	Solid	DI Leach	
400-127781-2	MW-6 (36.5-37.5)	Soluble	Solid	DI Leach	
400-127781-3	MW-7 (34.5-35.5)	Soluble	Solid	DI Leach	
400-127781-4	MW-2R (32.5-33.5)	Soluble	Solid	DI Leach	
400-127781-5	MW-3R (31-32)	Soluble	Solid	DI Leach	
400-127781-6	MW-8 (33-34)	Soluble	Solid	DI Leach	
400-127781-7	SB-1 (22.5-23.5)	Soluble	Solid	DI Leach	
400-127781-8	SB-1 (24.5-25.5)	Soluble	Solid	DI Leach	
400-127781-9	SB-1 (28.5-29.5)	Soluble	Solid	DI Leach	
MB 400-324440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-324440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-324440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
400-127781-1 MS	MW-5 (36-37)	Soluble	Solid	DI Leach	
400-127781-1 MSD	MW-5 (36-37)	Soluble	Solid	DI Leach	

Analysis Batch: 324618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-324440/1-A	Method Blank	Soluble	Solid	300.0	324440
LCS 400-324440/2-A	Lab Control Sample	Soluble	Solid	300.0	324440
LCSD 400-324440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	324440

Analysis Batch: 325111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Soluble	Solid	300.0	324440
400-127781-2	MW-6 (36.5-37.5)	Soluble	Solid	300.0	324440
400-127781-3	MW-7 (34.5-35.5)	Soluble	Solid	300.0	324440
400-127781-4	MW-2R (32.5-33.5)	Soluble	Solid	300.0	324440
400-127781-5	MW-3R (31-32)	Soluble	Solid	300.0	324440
400-127781-6	MW-8 (33-34)	Soluble	Solid	300.0	324440
400-127781-7	SB-1 (22.5-23.5)	Soluble	Solid	300.0	324440
400-127781-8	SB-1 (24.5-25.5)	Soluble	Solid	300.0	324440
400-127781-9	SB-1 (28.5-29.5)	Soluble	Solid	300.0	324440
400-127781-1 MS	MW-5 (36-37)	Soluble	Solid	300.0	324440
400-127781-1 MSD	MW-5 (36-37)	Soluble	Solid	300.0	324440

TestAmerica Pensacola

QC Association Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

General Chemistry

Analysis Batch: 324681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127781-1	MW-5 (36-37)	Total/NA	Solid	Moisture	5
400-127781-2	MW-6 (36.5-37.5)	Total/NA	Solid	Moisture	6
400-127781-3	MW-7 (34.5-35.5)	Total/NA	Solid	Moisture	7
400-127781-4	MW-2R (32.5-33.5)	Total/NA	Solid	Moisture	8
400-127781-5	MW-3R (31-32)	Total/NA	Solid	Moisture	9
400-127781-6	MW-8 (33-34)	Total/NA	Solid	Moisture	10
400-127781-7	SB-1 (22.5-23.5)	Total/NA	Solid	Moisture	11
400-127781-8	SB-1 (24.5-25.5)	Total/NA	Solid	Moisture	12
400-127781-9	SB-1 (28.5-29.5)	Total/NA	Solid	Moisture	13
400-127781-9 DU	SB-1 (28.5-29.5)	Total/NA	Solid	Moisture	14

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-324511/9-A

Matrix: Solid

Analysis Batch: 324519

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324511

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	<5.0		5.0	mg/Kg		09/28/16 10:34	09/28/16 22:35	50
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		65 - 125			09/28/16 10:34	09/28/16 22:35	50

Lab Sample ID: LCS 400-324511/8-A

Matrix: Solid

Analysis Batch: 324519

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 324511

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO) C6--C10		50.0	36.8		mg/Kg		74	62 - 141
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
a,a,a-Trifluorotoluene (fid)	99		65 - 125					

Lab Sample ID: 400-127816-A-1-C MS

Matrix: Solid

Analysis Batch: 324519

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 324511

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO) C6--C10	64		57.6	128		mg/Kg	※	110	10 - 150
Surrogate	MS %Recovery	MS Qualifier	Limits						
a,a,a-Trifluorotoluene (fid)	91		65 - 125						

Lab Sample ID: 400-127816-A-1-D MSD

Matrix: Solid

Analysis Batch: 324519

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 324511

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Gasoline Range Organics (GRO) C6--C10	64		57.6	129		mg/Kg	※	112	10 - 150	1
Surrogate	MSD %Recovery	MSD Qualifier	Limits							
a,a,a-Trifluorotoluene (fid)	92		65 - 125							

Lab Sample ID: MB 400-324513/1-A

Matrix: Solid

Analysis Batch: 324528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324513

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6-C10	<0.10		0.10	mg/Kg		09/28/16 16:20	09/29/16 07:02	1

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 400-324513/1-A

Matrix: Solid

Analysis Batch: 324528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324513

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

Prepared 09/28/16 16:20 **Analyzed** 09/29/16 07:02 **Dil Fac** 1

Lab Sample ID: LCS 400-324513/3-A

Matrix: Solid

Analysis Batch: 324528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 324513

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Gasoline Range Organics (GRO) C6--C10	1.00	1.05		mg/Kg		105	62 - 141
Surrogate		LCS	LCS				
a,a,a-Trifluorotoluene (fid)	91		65 - 125				

Lab Sample ID: 400-127781-5 MS

Matrix: Solid

Analysis Batch: 324528

Client Sample ID: MW-3R (31-32)

Prep Type: Total/NA

Prep Batch: 324513

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Organics (GRO) C6--C10	<0.11		1.14	1.22		mg/Kg	⊗	107	10 - 150
Surrogate		MS	MS						
a,a,a-Trifluorotoluene (fid)	93		65 - 125						

Lab Sample ID: 400-127781-5 MSD

Matrix: Solid

Analysis Batch: 324528

Client Sample ID: MW-3R (31-32)

Prep Type: Total/NA

Prep Batch: 324513

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Gasoline Range Organics (GRO) C6--C10	<0.11		1.15	1.02		mg/Kg	⊗	88	10 - 150	18	32
Surrogate		MSD	MSD								
a,a,a-Trifluorotoluene (fid)	92		65 - 125								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-324511/9-A

Matrix: Solid

Analysis Batch: 325411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324511

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.050		0.050	mg/Kg		09/28/16 10:34	10/04/16 19:35	50
Ethylbenzene	<0.050		0.050	mg/Kg		09/28/16 10:34	10/04/16 19:35	50
Toluene	<0.25		0.25	mg/Kg		09/28/16 10:34	10/04/16 19:35	50
Xylenes, Total	<0.25		0.25	mg/Kg		09/28/16 10:34	10/04/16 19:35	50

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

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

Lab Sample ID: MB 400-324511/9-A
Matrix: Solid
Analysis Batch: 325411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324511

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	90		40 - 150	09/28/16 10:34	10/04/16 19:35	50

Lab Sample ID: LCS 400-324511/14-A
Matrix: Solid
Analysis Batch: 324839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324511

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
	Added	Result						
Benzene	2.50	2.45	mg/Kg	98	74 - 127			
Ethylbenzene	2.50	2.47	mg/Kg	99	79 - 131			
Toluene	2.50	2.53	mg/Kg	101	76 - 127			
Xylenes, Total	7.50	7.46	mg/Kg	99	80 - 129			

Surrogate	LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene (pid)	94		40 - 150

Lab Sample ID: 400-127781-A-7-C MS
Matrix: Solid
Analysis Batch: 324839

Client Sample ID: 400-127781-A-7-C MS
Prep Type: Total/NA
Prep Batch: 324511

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.052		2.62	2.50	mg/Kg	⊗	95	10 - 150	
Ethylbenzene	<0.052		2.62	2.58	mg/Kg	⊗	97	10 - 150	
Toluene	<0.26		2.62	2.69	mg/Kg	⊗	100	10 - 150	
Xylenes, Total	0.37		7.86	7.89	mg/Kg	⊗	96	50 - 150	

Surrogate	MS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene (pid)	92		40 - 150

Lab Sample ID: 400-127781-A-7-D MSD
Matrix: Solid
Analysis Batch: 324839

Client Sample ID: 400-127781-A-7-D MSD
Prep Type: Total/NA
Prep Batch: 324511

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.052		2.62	2.58	mg/Kg	⊗	98	10 - 150		3	34
Ethylbenzene	<0.052		2.62	2.63	mg/Kg	⊗	99	10 - 150		2	66
Toluene	<0.26		2.62	2.74	mg/Kg	⊗	102	10 - 150		2	44
Xylenes, Total	0.37		7.86	7.96	mg/Kg	⊗	97	50 - 150		1	46

Surrogate	MSD		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene (pid)	94		40 - 150

Lab Sample ID: MB 400-324513/1-A
Matrix: Solid
Analysis Batch: 324530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324513

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.0010		0.0010	mg/Kg		09/28/16 16:20	09/29/16 07:02	1

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

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

Lab Sample ID: MB 400-324513/1-A

Matrix: Solid

Analysis Batch: 324530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324513

Analyte	MB		RL	Unit	D	Prepared		Dil Fac
	Result	Qualifier				Prepared	Analyzed	
Ethylbenzene	<0.0010		0.0010	mg/Kg		09/28/16 16:20	09/29/16 07:02	1
Toluene	<0.0050		0.0050	mg/Kg		09/28/16 16:20	09/29/16 07:02	1
Xylenes, Total	<0.0050		0.0050	mg/Kg		09/28/16 16:20	09/29/16 07:02	1

Surrogate	MB		Limits	Prepared	Dil Fac
	%Recovery	Qualifier			
a,a,a-Trifluorotoluene (pid)	91		40 - 150	09/28/16 16:20	09/29/16 07:02

Lab Sample ID: LCS 400-324513/2-A

Matrix: Solid

Analysis Batch: 324530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 324513

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
Benzene	0.0500	0.0446	mg/Kg			89	74 - 127	
Ethylbenzene	0.0500	0.0482	mg/Kg			96	79 - 131	
Toluene	0.0500	0.0477	mg/Kg			95	76 - 127	
Xylenes, Total	0.150	0.141	mg/Kg			94	80 - 129	

Surrogate	LCS		Limits	Prepared	Dil Fac
	%Recovery	Qualifier			
a,a,a-Trifluorotoluene (pid)	93		40 - 150	09/28/16 16:20	09/29/16 07:02

Lab Sample ID: 400-127781-5 MS

Matrix: Solid

Analysis Batch: 324530

Client Sample ID: MW-3R (31-32)

Prep Type: Total/NA

Prep Batch: 324513

Analyte	Sample		Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier							
Benzene	<0.0011		0.0575	0.0539	mg/Kg	⊗	94	10 - 150	
Ethylbenzene	<0.0011		0.0575	0.0572	mg/Kg	⊗	99	10 - 150	
Toluene	<0.0054		0.0575	0.0563	mg/Kg	⊗	98	10 - 150	
Xylenes, Total	<0.0054		0.173	0.166	mg/Kg	⊗	96	50 - 150	

Surrogate	MS		Limits	Prepared	Dil Fac
	%Recovery	Qualifier			
a,a,a-Trifluorotoluene (pid)	94		40 - 150	09/28/16 16:20	09/29/16 07:02

Lab Sample ID: 400-127781-5 MSD

Matrix: Solid

Analysis Batch: 324530

Client Sample ID: MW-3R (31-32)

Prep Type: Total/NA

Prep Batch: 324513

Analyte	Sample		Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier									
Benzene	<0.0011		0.0567	0.0534	mg/Kg	⊗	94	10 - 150	1	34	
Ethylbenzene	<0.0011		0.0567	0.0544	mg/Kg	⊗	96	10 - 150	5	66	
Toluene	<0.0054		0.0567	0.0537	mg/Kg	⊗	95	10 - 150	5	44	
Xylenes, Total	<0.0054		0.170	0.158	mg/Kg	⊗	93	50 - 150	5	46	

Surrogate	MSD		Limits	Prepared	Dil Fac
	%Recovery	Qualifier			
a,a,a-Trifluorotoluene (pid)	94		40 - 150	09/28/16 16:20	09/29/16 07:02

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

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

Lab Sample ID: MB 400-324494/13-A

Matrix: Solid

Analysis Batch: 324712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 324494

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C10-C28	<5.0		5.0	mg/Kg		09/28/16 14:14	09/29/16 17:53	1
C28-C35	<5.0		5.0	mg/Kg		09/28/16 14:14	09/29/16 17:53	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl	%Recovery	Qualifier						
	92		27 - 151	09/28/16 14:14	09/29/16 17:53	1		

Lab Sample ID: LCS 400-324494/12-A

Matrix: Solid

Analysis Batch: 324712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 324494

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
	Result	Qualifier							
C10-C28			333	249		mg/Kg		75	63 - 153
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits				
o-Terphenyl	%Recovery	Qualifier							
	102			27 - 151					

Lab Sample ID: 400-127781-9 MS

Matrix: Solid

Analysis Batch: 324712

Client Sample ID: SB-1 (28.5-29.5)

Prep Type: Total/NA

Prep Batch: 324494

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
	Result	Qualifier							
C10-C28	120	F1	353	307	F1	mg/Kg	※	53	62 - 204
Surrogate	MS	MS	%Recovery	Qualifier	Limits				
o-Terphenyl	%Recovery	Qualifier							
	97			27 - 151					

Lab Sample ID: 400-127781-9 MSD

Matrix: Solid

Analysis Batch: 324712

Client Sample ID: SB-1 (28.5-29.5)

Prep Type: Total/NA

Prep Batch: 324494

Analyte	Sample	Sample	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
	Result	Qualifier							
C10-C28	120	F1	357	293	F1	mg/Kg	※	49	62 - 204
Surrogate	MSD	MSD	%Recovery	Qualifier	Limits				Limit
o-Terphenyl	%Recovery	Qualifier							
	93			27 - 151					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-324440/1-A

Matrix: Solid

Analysis Batch: 324618

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<20		20	mg/Kg		09/28/16 12:37		1

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-324440/2-A

Matrix: Solid

Analysis Batch: 324618

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Chloride	100	90.8		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 400-324440/3-A

Matrix: Solid

Analysis Batch: 324618

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Chloride	100	98.4		mg/Kg		98	80 - 120	8	15

Lab Sample ID: 400-127781-1 MS

Matrix: Solid

Analysis Batch: 325111

Client Sample ID: MW-5 (36-37)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Chloride	<220	F1 F2	111	<220	F1	mg/Kg	⊗	143	80 - 120

Lab Sample ID: 400-127781-1 MSD

Matrix: Solid

Analysis Batch: 325111

Client Sample ID: MW-5 (36-37)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Chloride	<220	F1 F2	112	<220	F2	mg/Kg	⊗	94	80 - 120	41	15

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-5 (36-37)

Date Collected: 09/22/16 16:30

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-1

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			324681	09/29/16 15:09	SVW	TAL PEN

Client Sample ID: MW-5 (36-37)

Date Collected: 09/22/16 16:30

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-1

Matrix: Solid

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.22 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	324519	09/30/16 14:16	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.22 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	324839	10/03/16 10:53	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			14.60 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 18:47	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.50 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 16:22	TAJ	TAL PEN
		Instrument ID: IC2								

Client Sample ID: MW-6 (36.5-37.5)

Date Collected: 09/23/16 10:05

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-2

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			324681	09/29/16 15:09	SVW	TAL PEN

Client Sample ID: MW-6 (36.5-37.5)

Date Collected: 09/23/16 10:05

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-2

Matrix: Solid

Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.44 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		500	5 mL	5 mL	324519	09/30/16 18:25	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.44 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		100	5 mL	5 mL	324839	10/03/16 11:20	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			14.93 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 18:58	TJB	TAL PEN
		Instrument ID: Eva								

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-6 (36.5-37.5)

Date Collected: 09/23/16 10:05
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-2

Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			2.48 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 18:16	TAJ	TAL PEN
		Instrument ID: IC2								

Client Sample ID: MW-7 (34.5-35.5)

Date Collected: 09/23/16 13:35
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-3

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			324681	09/29/16 15:09	SVW	TAL PEN
		Instrument ID: NOEQUIP								

Client Sample ID: MW-7 (34.5-35.5)

Date Collected: 09/23/16 13:35
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-3

Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.13 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		1000	5 mL	5 mL	324519	09/30/16 17:28	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.13 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		100	5 mL	5 mL	324839	10/03/16 11:48	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			15.13 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 19:09	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.51 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 18:38	TAJ	TAL PEN
		Instrument ID: IC2								

Client Sample ID: MW-2R (32.5-33.5)

Date Collected: 09/24/16 08:45
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-4

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			324681	09/29/16 15:09	SVW	TAL PEN
		Instrument ID: NOEQUIP								

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-2R (32.5-33.5)

Date Collected: 09/24/16 08:45

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-4

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		500	5 mL	5 mL	324519	09/30/16 18:52	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.05 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		100	5 mL	5 mL	324839	10/03/16 12:15	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			15.08 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 19:20	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.49 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 19:01	TAJ	TAL PEN
		Instrument ID: IC2								

Client Sample ID: MW-3R (31-32)

Date Collected: 09/24/16 12:05

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-5

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			324681	09/29/16 15:09	SVW	TAL PEN
		Instrument ID: NOEQUIP								

Client Sample ID: MW-3R (31-32)

Date Collected: 09/24/16 12:05

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-5

Matrix: Solid

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.39 g	5.00 g	324513	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	324528	09/29/16 07:37	SAB	TAL PEN
		Instrument ID: CH_JOAN								
Total/NA	Prep	5035			5.39 g	5.00 g	324513	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	324530	09/29/16 07:37	SAB	TAL PEN
		Instrument ID: CH_JOAN								
Total/NA	Prep	3546			15.16 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 19:31	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.51 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 19:24	TAJ	TAL PEN
		Instrument ID: IC2								

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: MW-8 (33-34)

Date Collected: 09/25/16 09:00

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-6

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			324681	09/29/16 15:09	SVW	TAL PEN

Instrument ID: NOEQUIP

Client Sample ID: MW-8 (33-34)

Date Collected: 09/25/16 09:00

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-6

Matrix: Solid

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.28 g	5.00 g	324513	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		1	5 mL	5 mL	324528	09/29/16 08:12	SAB	TAL PEN
		Instrument ID: CH_JOAN								
Total/NA	Prep	5035			5.28 g	5.00 g	324513	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		1	5 mL	5 mL	324530	09/29/16 08:12	SAB	TAL PEN
		Instrument ID: CH_JOAN								
Total/NA	Prep	3546			14.90 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 19:53	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.48 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 19:47	TAJ	TAL PEN
		Instrument ID: IC2								

Client Sample ID: SB-1 (22.5-23.5)

Date Collected: 09/25/16 12:40

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-7

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			324681	09/29/16 15:09	SVW	TAL PEN

Instrument ID: NOEQUIP

Client Sample ID: SB-1 (22.5-23.5)

Date Collected: 09/25/16 12:40

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-7

Matrix: Solid

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.20 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		50	5 mL	5 mL	324519	09/30/16 16:06	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.20 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		50	5 mL	5 mL	324839	10/03/16 10:26	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			15.49 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 20:04	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.53 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: SB-1 (22.5-23.5)

Date Collected: 09/25/16 12:40
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-7

Matrix: Solid
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	300.0		10			325111	09/30/16 20:10	TAJ	TAL PEN

Client Sample ID: SB-1 (24.5-25.5)

Date Collected: 09/25/16 12:50
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-8

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			324681	09/29/16 15:09	SVW	TAL PEN

Client Sample ID: SB-1 (24.5-25.5)

Date Collected: 09/25/16 12:50
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-8

Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.48 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8015B		5000	5 mL	5 mL	324519	09/30/16 19:19	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.48 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		500	5 mL	5 mL	324839	10/03/16 12:43	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			15.38 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 20:15	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.52 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 20:33	TAJ	TAL PEN
		Instrument ID: IC2								

Client Sample ID: SB-1 (28.5-29.5)

Date Collected: 09/25/16 13:00
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-9

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			324681	09/29/16 15:09	SVW	TAL PEN

Client Sample ID: SB-1 (28.5-29.5)

Date Collected: 09/25/16 13:00
Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-9

Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.23 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Client Sample ID: SB-1 (28.5-29.5)

Date Collected: 09/25/16 13:00

Date Received: 09/27/16 10:11

Lab Sample ID: 400-127781-9

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		5000	5 mL	5 mL	324519	09/30/16 19:47	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	5035			5.23 g	5.00 g	324511	09/28/16 16:20	SAB	TAL PEN
Total/NA	Analysis	8021B		500	5 mL	5 mL	324839	10/03/16 13:10	SAB	TAL PEN
		Instrument ID: CH_RITA								
Total/NA	Prep	3546			14.80 g	1.0 mL	324494	09/28/16 14:14	RDT	TAL PEN
Total/NA	Analysis	8015B		1			324712	09/29/16 18:36	TJB	TAL PEN
		Instrument ID: Eva								
Soluble	Leach	DI Leach			2.49 g	50 mL	324440	09/28/16 10:00	KH1	TAL PEN
Soluble	Analysis	300.0		10			325111	09/30/16 20:55	TAJ	TAL PEN
		Instrument ID: IC2								

Laboratory References:

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

TestAmerica Pensacola

Certification Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-127781-1

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	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

ପ୍ରକାଶକ

Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-127781-1

Login Number: 127781

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hughes, Nicholas T

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C - IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 # 55241
GENERATOR EI PASO
POINT OF ORIGIN K27 Line DRIP 074
TRANSPORTER SCARF oil FIELD
DATE 9-30-16 JOB # 14073-0020

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

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

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

DATE 10-11-16

GENERATOR: El Paso

HAULING CO: Sierra Oilfield

ORDERED BY: El Paso Vaidez

WASTE DESCRIPTION: Exempt Oilfield Waste Produced Water Drilling/Completion Fluids Reserve Pit

STATE: NM CO AZ UT

TREATMENT/DISPOSAL METHODS: EVAPORATION INJECTION TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	SP8	Lateral 4D	4	750	-	30	780	04:00PM
2								
3	1	Lindrith	1	750	-	0	750	
4								
5								

I, John Brown

representative or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt, Oil field wastes generated from oil and gas exploration and production operations and not mixed with non-exempt waste.

Approved

Denied

ATTENDANT SIGNATURE John Brown

san juan reproduction 168-6

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: 400-120429-1

Client Project/Site: K27 LD072

For:

MWH Americas Inc

11153 Aurora Avenue

Des Moines, Iowa 50322-7904

Attn: Steve Varsa



Authorized for release by:

5/3/2016 5:01:24 PM

Marty Edwards, Manager of Project Management

(850)474-1001

marty.edwards@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

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

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions	3
Case Narrative	4
Detection Summary	5
Sample Summary	6
Client Sample Results	7
QC Association	10
QC Sample Results	11
Chronicle	12
Certification Summary	13
Method Summary	14
Chain of Custody	15
Receipt Checklists	16

Definitions/Glossary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	1
□	Listed under the "D" column to designate that the result is reported on a dry weight basis	2
%R	Percent Recovery	3
CFL	Contains Free Liquid	4
CNF	Contains no Free Liquid	5
DER	Duplicate error ratio (normalized absolute difference)	6
Dil Fac	Dilution Factor	7
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	8
DLC	Decision level concentration	9
MDA	Minimum detectable activity	10
EDL	Estimated Detection Limit	11
MDC	Minimum detectable concentration	12
MDL	Method Detection Limit	13
ML	Minimum Level (Dioxin)	14
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: K27 LD072

TestAmerica Job ID: 400-120429-1

Job ID: 400-120429-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-120429-1

Comments

No additional comments.

Receipt

The samples were received on 4/19/2016 9:43 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° 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: K27 LD072

TestAmerica Job ID: 400-120429-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-120429-1

No Detections.

Client Sample ID: MW-1

Lab Sample ID: 400-120429-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.1		1.0	ug/L	1		8021B	Total/NA
Toluene	5.9		5.0	ug/L	1		8021B	Total/NA
Xylenes, Total	10		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-120429-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-120429-1	TRIP BLANK	Water	04/17/16 08:00	04/19/16 09:43
400-120429-2	MW-1	Water	04/17/16 15:10	04/19/16 09:43
400-120429-3	MW-4	Water	04/17/16 15:20	04/19/16 09:43

1

2

3

4

5

6

7

8

9

10

11

12

13

14

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Client Sample ID: TRIP BLANK

Date Collected: 04/17/16 08:00

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120429-1

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L		04/28/16 19:53		1
Ethylbenzene	<1.0		1.0	ug/L		04/28/16 19:53		1
Toluene	<5.0		5.0	ug/L		04/28/16 19:53		1
Xylenes, Total	<5.0		5.0	ug/L		04/28/16 19:53		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	99		78 - 124			04/28/16 19:53		1

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Client Sample ID: MW-1

Date Collected: 04/17/16 15:10

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120429-2

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.1		1.0	ug/L		04/28/16 20:20		1
Ethylbenzene	<1.0		1.0	ug/L		04/28/16 20:20		1
Toluene	5.9		5.0	ug/L		04/28/16 20:20		1
Xylenes, Total	10		5.0	ug/L		04/28/16 20:20		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	99		78 - 124			04/28/16 20:20		1

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Client Sample ID: MW-4

Date Collected: 04/17/16 15:20

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120429-3

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L		04/28/16 20:48		1
Ethylbenzene	<1.0		1.0	ug/L		04/28/16 20:48		1
Toluene	<5.0		5.0	ug/L		04/28/16 20:48		1
Xylenes, Total	<5.0		5.0	ug/L		04/28/16 20:48		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	100		78 - 124			04/28/16 20:48		1

QC Association Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

GC VOA

Analysis Batch: 303815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120429-1	TRIP BLANK	Total/NA	Water	8021B	
400-120429-2	MW-1	Total/NA	Water	8021B	
400-120429-3	MW-4	Total/NA	Water	8021B	
400-120433-B-15 MS	Matrix Spike	Total/NA	Water	8021B	
400-120433-B-15 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	
LCS 400-303815/1001	Lab Control Sample	Total/NA	Water	8021B	
MB 400-303815/2	Method Blank	Total/NA	Water	8021B	

QC Sample Results

Client: MWH Americas Inc

Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-303815/2

Matrix: Water

Analysis Batch: 303815

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<1.0		1.0	ug/L			04/28/16 04:24	1
Ethylbenzene	<1.0		1.0	ug/L			04/28/16 04:24	1
Toluene	<5.0		5.0	ug/L			04/28/16 04:24	1
Xylenes, Total	<5.0		5.0	ug/L			04/28/16 04:24	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	103		78 - 124		04/28/16 04:24	1

Lab Sample ID: LCS 400-303815/1001

Matrix: Water

Analysis Batch: 303815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
Benzene	50.0	51.8	ug/L	104	85 - 115			
Ethylbenzene	50.0	50.6	ug/L	101	85 - 115			
Toluene	50.0	51.5	ug/L	103	85 - 115			
Xylenes, Total	150	150	ug/L	100	85 - 115			

Surrogate	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	101		78 - 124		04/28/16 04:24	1

Lab Sample ID: 400-120433-B-15 MS

Matrix: Water

Analysis Batch: 303815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<1.0		50.0	59.0		ug/L	118	44 - 150	
Ethylbenzene	<1.0		50.0	52.3		ug/L	105	70 - 142	
Toluene	<5.0		50.0	56.1		ug/L	112	69 - 136	
Xylenes, Total	<5.0		150	156		ug/L	104	68 - 142	

Surrogate	MS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	103		78 - 124		04/28/16 04:24	1

Lab Sample ID: 400-120433-B-15 MSD

Matrix: Water

Analysis Batch: 303815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<1.0		50.0	58.8		ug/L	118	44 - 150	0	16	
Ethylbenzene	<1.0		50.0	57.4		ug/L	115	70 - 142	9	16	
Toluene	<5.0		50.0	58.2		ug/L	116	69 - 136	4	16	
Xylenes, Total	<5.0		150	172		ug/L	115	68 - 142	9	15	

Surrogate	MSD		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (pid)	101		78 - 124		04/28/16 04:24	1

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

Client Sample ID: TRIP BLANK

Date Collected: 04/17/16 08:00

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120429-1

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	303815	04/28/16 19:53	GRK	TAL PEN

Instrument ID: CH_RITA

Client Sample ID: MW-1

Date Collected: 04/17/16 15:10

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120429-2

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	303815	04/28/16 20:20	GRK	TAL PEN

Instrument ID: CH_RITA

Client Sample ID: MW-4

Date Collected: 04/17/16 15:20

Date Received: 04/19/16 09:43

Lab Sample ID: 400-120429-3

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	303815	04/28/16 20:48	GRK	TAL PEN

Instrument ID: CH_RITA

Laboratory References:

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

TestAmerica Pensacola

Certification Summary

Client: MWH Americas Inc

Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

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	06-30-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
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	05-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
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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	12-31-16
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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.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-120429-1

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

Book of Cyclopedia Record

Client Information		Carrier Tracking No(s): COG-54330-21705.1																													
Client Contact: Mr. Sarah Gardner Company: MWH Americas Inc		Lab P/M: Edwards, Marty P E-mail: marty.edwards@testamericainc.com																													
Address: 1560 Broadway Suite 1800 City: Denver State/Zip: CO, 80202 Phone: 503-291-2239(Tel) Email: Sarah.gardner@mwhglobal.com Project Name: 4C005478 Site: K27-60072		Due Date Requested: <i>per A&F</i> TAT Requested (days): <i>per A&F</i> PO #: Purchase Order Requested W# <i>ED6-MWH-03-3015-CW2-01</i> Project #: 4C005478 SSC#: 0021-B - BTDC 8021																													
Sample: <i>Bad Bait Chat about breeding</i> Phone: 316 631 1738		Carrier Tracking No(s): COG-54330-21705.1 Page: Page 1 of 1 Job #:																													
Analysis Requested																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Preservation Codes:</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;">A - HCl</td> <td style="width: 50%;">M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaOCl</td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SC3</td> </tr> <tr> <td>F - NaOH</td> <td>R - Na2S2O3</td> </tr> <tr> <td>G - Ammonium</td> <td>S - H2SO4</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Docetaxide</td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>J - Di Water</td> <td>V - MCA</td> </tr> <tr> <td>K - EDTA</td> <td>W - pH: 4.5</td> </tr> <tr> <td>L - EDA</td> <td>Z - other (specify)</td> </tr> <tr> <td colspan="2">Other:</td> </tr> </tbody> </table>		Preservation Codes:		A - HCl	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaOCl	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SC3	F - NaOH	R - Na2S2O3	G - Ammonium	S - H2SO4	H - Ascorbic Acid	T - TSP Docetaxide	I - Ice	U - Acetone	J - Di Water	V - MCA	K - EDTA	W - pH: 4.5	L - EDA	Z - other (specify)	Other:			
Preservation Codes:																															
A - HCl	M - Hexane																														
B - NaOH	N - None																														
C - Zn Acetate	O - AsNaOCl																														
D - Nitric Acid	P - Na2O4S																														
E - NaHSO4	Q - Na2SC3																														
F - NaOH	R - Na2S2O3																														
G - Ammonium	S - H2SO4																														
H - Ascorbic Acid	T - TSP Docetaxide																														
I - Ice	U - Acetone																														
J - Di Water	V - MCA																														
K - EDTA	W - pH: 4.5																														
L - EDA	Z - other (specify)																														
Other:																															
400-120429 COC																															
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Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-120429-1

Login Number: 120429

List Source: TestAmerica Pensacola

List Number: 1

Creator: Crawford, Lauren E

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	2.9°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 400-128855-1

Client Project/Site: K27 LD072

For:

MWH Americas Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner

Authorized for release by:

10/27/2016 1:18:49 PM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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results through

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The
Expert

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www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

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)

1

2

3

4

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14

Case Narrative

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Job ID: 400-128855-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-128855-1

Comments

No additional comments.

Receipt

The samples were received on 10/18/2016 9:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC VOA

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

VOA 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: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-1

Lab Sample ID: 400-128855-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.0		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	6.9		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-3R

Lab Sample ID: 400-128855-2

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 400-128855-3

No Detections.

Client Sample ID: MW-5

Lab Sample ID: 400-128855-4

No Detections.

Client Sample ID: MW-6

Lab Sample ID: 400-128855-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.5		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	4.5		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	59		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-128855-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-128855-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.8		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	23		1.0	ug/L	1		8021B	Total/NA
Toluene	42		5.0	ug/L	1		8021B	Total/NA
Xylenes, Total	230		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: TB

Lab Sample ID: 400-128855-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128855-1	MW-1	Water	10/15/16 09:32	10/18/16 09:11
400-128855-2	MW-3R	Water	10/15/16 09:37	10/18/16 09:11
400-128855-3	MW-4	Water	10/15/16 09:42	10/18/16 09:11
400-128855-4	MW-5	Water	10/15/16 09:47	10/18/16 09:11
400-128855-5	MW-6	Water	10/15/16 09:52	10/18/16 09:11
400-128855-6	MW-7	Water	10/15/16 09:56	10/18/16 09:11
400-128855-7	MW-8	Water	10/15/16 10:00	10/18/16 09:11
400-128855-8	TB	Water	10/15/16 00:00	10/18/16 09:11

TestAmerica Pensacola

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-1

Date Collected: 10/15/16 09:32

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-1

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0		1.0	ug/L			10/25/16 19:39	1
Ethylbenzene	<1.0		1.0	ug/L			10/25/16 19:39	1
Toluene	<5.0		5.0	ug/L			10/25/16 19:39	1
Xylenes, Total	6.9		5.0	ug/L			10/25/16 19:39	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	106		78 - 124			10/25/16 19:39	1	

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-3R
Date Collected: 10/15/16 09:37
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/25/16 20:07	1
Ethylbenzene	<1.0		1.0	ug/L			10/25/16 20:07	1
Toluene	<5.0		5.0	ug/L			10/25/16 20:07	1
Xylenes, Total	<5.0		5.0	ug/L			10/25/16 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	100		78 - 124		10/25/16 20:07	1

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-4

Date Collected: 10/15/16 09:42

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-3

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/25/16 20:36	1
Ethylbenzene	<1.0		1.0	ug/L			10/25/16 20:36	1
Toluene	<5.0		5.0	ug/L			10/25/16 20:36	1
Xylenes, Total	<5.0		5.0	ug/L			10/25/16 20:36	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	101		78 - 124			10/25/16 20:36	1	

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-5

Date Collected: 10/15/16 09:47

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-4

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/25/16 21:03	1
Ethylbenzene	<1.0		1.0	ug/L			10/25/16 21:03	1
Toluene	<5.0		5.0	ug/L			10/25/16 21:03	1
Xylenes, Total	<5.0		5.0	ug/L			10/25/16 21:03	1

Surrogate

a,a,a-Trifluorotoluene (pid)

%Recovery Qualifier Limits

92 78 - 124

Prepared

Analyzed

Dil Fac

10/25/16 21:03

1

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-6

Date Collected: 10/15/16 09:52

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-5

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.5		1.0	ug/L			10/25/16 21:31	1
Ethylbenzene	4.5		1.0	ug/L			10/25/16 21:31	1
Toluene	<5.0		5.0	ug/L			10/25/16 21:31	1
Xylenes, Total	59		5.0	ug/L			10/25/16 21:31	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	90		78 - 124			10/25/16 21:31	1	

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-7

Date Collected: 10/15/16 09:56

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-6

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.2		1.0	ug/L		10/25/16 21:58		1
Ethylbenzene	<1.0		1.0	ug/L		10/25/16 21:58		1
Toluene	<5.0		5.0	ug/L		10/25/16 21:58		1
Xylenes, Total	<5.0		5.0	ug/L		10/25/16 21:58		1
Surrogate		%Recovery		Qualifier		Limits		
		100				78 - 124		
							Prepared	Analyzed
							10/25/16 21:58	
								1

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-8

Date Collected: 10/15/16 10:00

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-7

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.8		1.0	ug/L		10/25/16 22:25		1
Ethylbenzene	23		1.0	ug/L		10/25/16 22:25		1
Toluene	42		5.0	ug/L		10/25/16 22:25		1
Xylenes, Total	230		5.0	ug/L		10/25/16 22:25		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	98		78 - 124			10/25/16 22:25		1

Client Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: TB

Date Collected: 10/15/16 00:00

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-8

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/25/16 23:48	1
Ethylbenzene	<1.0		1.0	ug/L			10/25/16 23:48	1
Toluene	<5.0		5.0	ug/L			10/25/16 23:48	1
Xylenes, Total	<5.0		5.0	ug/L			10/25/16 23:48	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
a,a,a-Trifluorotoluene (pid)	100		78 - 124			10/25/16 23:48	1	

QC Association Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

GC VOA

Analysis Batch: 328165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128855-1	MW-1	Total/NA	Water	8021B	5
400-128855-2	MW-3R	Total/NA	Water	8021B	6
400-128855-3	MW-4	Total/NA	Water	8021B	7
400-128855-4	MW-5	Total/NA	Water	8021B	8
400-128855-5	MW-6	Total/NA	Water	8021B	9
400-128855-6	MW-7	Total/NA	Water	8021B	10
400-128855-7	MW-8	Total/NA	Water	8021B	11
400-128855-8	TB	Total/NA	Water	8021B	12
MB 400-328165/5	Method Blank	Total/NA	Water	8021B	13
LCS 400-328165/1004	Lab Control Sample	Total/NA	Water	8021B	14
400-128742-A-2 MS	Matrix Spike	Total/NA	Water	8021B	
400-128742-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

TestAmerica Pensacola

QC Sample Results

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-328165/5

Matrix: Water

Analysis Batch: 328165

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			10/25/16 13:15	1
Ethylbenzene	<1.0		1.0	ug/L			10/25/16 13:15	1
Toluene	<5.0		5.0	ug/L			10/25/16 13:15	1
Xylenes, Total	<5.0		5.0	ug/L			10/25/16 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	101		78 - 124		10/25/16 13:15	1

Lab Sample ID: LCS 400-328165/1004

Matrix: Water

Analysis Batch: 328165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Benzene	50.0	49.0		ug/L		98	85 - 115
Ethylbenzene	50.0	48.4		ug/L		97	85 - 115
Toluene	50.0	49.5		ug/L		99	85 - 115
Xylenes, Total	150	145		ug/L		97	85 - 115

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

Lab Sample ID: 400-128742-A-2 MS

Matrix: Water

Analysis Batch: 328165

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Benzene	<1.0		50.0	56.6		ug/L		113	44 - 150
Ethylbenzene	<1.0		50.0	53.6		ug/L		107	70 - 142
Toluene	<5.0		50.0	55.3		ug/L		111	69 - 136
Xylenes, Total	<5.0		150	160		ug/L		106	68 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	101		78 - 124

Lab Sample ID: 400-128742-A-2 MSD

Matrix: Water

Analysis Batch: 328165

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.	RPD	Limit
Benzene	<1.0		50.0	54.4		ug/L		109	44 - 150	4	16
Ethylbenzene	<1.0		50.0	51.3		ug/L		103	70 - 142	4	16
Toluene	<5.0		50.0	53.1		ug/L		106	69 - 136	4	16
Xylenes, Total	<5.0		150	153		ug/L		102	68 - 142	4	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	105		78 - 124

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-1

Date Collected: 10/15/16 09:32

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-1

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	328165	10/25/16 19:39	GRK	TAL PEN

Client Sample ID: MW-3R

Date Collected: 10/15/16 09:37

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-2

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	328165	10/25/16 20:07	GRK	TAL PEN

Client Sample ID: MW-4

Date Collected: 10/15/16 09:42

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-3

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	328165	10/25/16 20:36	GRK	TAL PEN

Client Sample ID: MW-5

Date Collected: 10/15/16 09:47

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-4

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	328165	10/25/16 21:03	GRK	TAL PEN

Client Sample ID: MW-6

Date Collected: 10/15/16 09:52

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-5

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	328165	10/25/16 21:31	GRK	TAL PEN

Client Sample ID: MW-7

Date Collected: 10/15/16 09:56

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-6

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	328165	10/25/16 21:58	GRK	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

Client Sample ID: MW-8

Date Collected: 10/15/16 10:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-7

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	328165	10/25/16 22:25	GRK	TAL PEN

Instrument ID: CH_RITA

Client Sample ID: TB

Date Collected: 10/15/16 00:00
Date Received: 10/18/16 09:11

Lab Sample ID: 400-128855-8

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	328165	10/25/16 23:48	GRK	TAL PEN

Instrument ID: CH_RITA

Laboratory References:

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

TestAmerica Pensacola

Certification Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Method Summary

Client: MWH Americas Inc
Project/Site: K27 LD072

TestAmerica Job ID: 400-128855-1

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

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SERIAL NUMBER: 80877

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McElmore Drive
Pensacola, FL 32514
QUOTE NO.

Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com
BOTTLE ORDER NO.
C

681-Atlanta

CLIENT	ADDRESS	PROJECT NO.	CLIENT PROJECT MANAGER	PROJECT LOC. (STATE)	REQUESTED ANALYSIS		PAGE 1 OF 1
PROJECT NAME	PROJECT NO.	CONFAGT/P.O. NO. AZF#	CLIENT E-MAIL OR FAX	MATRIX	POSSIBLE HAZARD		IDENTIFICATION
SAMPLED BY	CWD	ERG-BW/H - 09-23-16-CWD#		NonAqueous (Oil, Solvent, etc.)	NON-HAZARD		FLAMMABLE
CLIENT PHONE				Air			RADIOACTIVE
TAT REQUESTED:	RUSH NEEDS LAB PREAPPROVAL <input type="checkbox"/> NORMAL 10 BUSINESS DAYS <input checked="" type="checkbox"/>	1 DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 20 DAYS (Package) <input type="checkbox"/> OTHER: Contract		Na2S2O3 - Sodium Thiosulfate			POISON B
SAMPLE DISPOSAL:	<input type="checkbox"/> RETURN TO CLIENT <input checked="" type="checkbox"/> DISPOSAL BY LAB			NaHSO4 - Sodium Bisulfite			UNKNOWN
SEE CONTRACT:	<input type="checkbox"/> OTHER:			CH3COH - Methanol			OTHER:
SAMPLE	SAMPLE IDENTIFICATION			HNO3 - Nitric Acid			NO. OF COOLERS PER
DATE	TIME			HCl - Hydrochloric Acid			SHIPMENT:
10/15/16	9:32	MJ-1		NaOH - Sodium Hydroxide			SPECIAL INSTRUCTIONS/
	9:37	MJ-3R		H2SO4 - Sulfuric Acid or H3PO4			CONDITIONS OF RECEIPT
	9:42	MJ-4		Na2S2O3 - Sodium Thiosulfate			
	9:47	MJ-5		NaHSO4 - Sodium Bisulfite			
	9:52	MJ-6		CH3COH - Methanol			
	9:54	MJ-7		HNO3 - Nitric Acid			
	10:00	MJ-8		HCl - Hydrochloric Acid			
	—	TB		NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
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				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
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				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
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				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
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				HCl - Hydrochloric Acid			
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				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
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				NaOH - Sodium Hydroxide			
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				NaHSO4 - Sodium Bisulfite			
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				NaHSO4 - Sodium Bisulfite			
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				NaHSO4 - Sodium Bisulfite			
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				HCl - Hydrochloric Acid			
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				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
				NaOH - Sodium Hydroxide			
				H2SO4 - Sulfuric Acid or H3PO4			
				Na2S2O3 - Sodium Thiosulfate			
				NaHSO4 - Sodium Bisulfite			
				CH3COH - Methanol			
				HNO3 - Nitric Acid			
				HCl - Hydrochloric Acid			
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Login Sample Receipt Checklist

Client: MWH Americas Inc

Job Number: 400-128855-1

Login Number: 128855

List Source: TestAmerica Pensacola

List Number: 1

Creator: Chambers, Cheryle A

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	745580
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	2.1°C IR6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	