

2018 ANNUAL GROUNDWATER REPORT

Miles Federal #1A
NMOCD Case#: 3RP-223-0
Meter Code: 94810
T26N, R7W, Sec5, Unit F

SITE DETAILS

Site Location: Latitude: 36.515700 N, Longitude -107.601460 W
Land Type: Federal
Operator: Cross Timbers Energy, LLC

SITE BACKGROUND

Environmental Remediation activities at Miles Federal #1A (Site) are managed pursuant to the procedures set forth in the document entitled, “*Remediation Plan for Groundwater Encountered during Pit Closure Activities*” (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP’s) program methods. Currently, the Site is operated by Cross Timbers Energy, LLC and is active.

The Site is located on Federal land. An initial site assessment was completed in January 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in June of 1994. Several site investigations have occurred since 1994. Monitoring wells were installed in 1994 (MW-1) and 1999 (MW-2 and MW-3). Due to accessibility and safety issues on site, the NMOCD has agreed (October 14, 2014 meeting with Glen VonGotten and Jim Griswold) that no further delineation is needed. Soil borings were advanced in 2016 (DP-1 and DP-2). Historically, free product has been periodically encountered and recovered at the Site but has not been observed since 2010. Currently, groundwater sampling is conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via electronic mail (e-mail) to the NMOCD on May 9, 2018, and October 23, 2018, prior to initiating groundwater sampling activities at the Site. Copies of the 2018 NMOCD notifications are provided in Appendix A. On May 15 and October 27, 2018, water levels were gauged at MW-1, MW-2, and MW-3. Groundwater samples were collected from each well using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event, using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the termination depth.

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). One laboratory-supplied trip blank was also collected during each groundwater sampling event. As requested by the NMOCD on March 20, 2018, EPCGP began collecting blind field duplicates of groundwater samples, as clarified in a March 21, 2018 e-mail to NMOCD. The samples, field duplicate, and trip blank were analyzed for BTEX constituents using United States Environmental Protection Agency (EPA) Method 8260. The unused sample water was combined in a waste container and taken to Basin Disposal, Inc. for disposal. Waste disposal documentation is included as Appendix B.

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SUMMARY TABLES

Historic analytical and water level data are summarized in Table 1 and Table 2, respectively.

SITE MAPS

Groundwater analytical maps (Figures 1 and 3) and groundwater elevation contour maps (Figures 2 and 4) summarize results of the 2018 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- The groundwater flow direction is generally to the northwest at the Site (see Figures 2 and 4).
- The groundwater samples collected in 2018 from MW-1 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Concentrations of benzene were not detected in the remaining site monitoring wells sampled in 2018.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in the Site monitoring wells sampled in 2018.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in the Site monitoring wells sampled in 2018.
- The groundwater sample collected in May 2018 from MW-1 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Concentrations of total xylenes were either below the NMWQCC standard or not detected in the remaining Site monitoring wells sampled in 2018.
- A field duplicate was collected from monitoring well MW-1 during the May and October 2018 sampling events. There were no significant differences in BTEX constituent concentrations between the primary and duplicate samples.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2018 groundwater monitoring events.

PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis. Groundwater samples will be collected from monitoring wells not containing free product and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. No additional activities are planned for 2019 at this time, as agreed upon during the February 6, 2019 meeting between NMOCD and EPCGP. The activities conducted in 2019 and their results will be summarized in the 2019 Annual Report, completed for submittal in early 2020.

TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMW/QCC Standards:		10	750	750	620
MW-1	11/05/96	1050	1630	391	2620
MW-1	02/07/97	671	809	439	2550
MW-1	05/06/97	300	350	320	1880
MW-1	04/17/08	122	203	369	2550
MW-1	04/06/09	104	199	596	1840
MW-1	06/02/10	186	266	370	2320
MW-1	05/09/11	14.6	19.3	86.9	236
MW-1	05/15/12	60.9	79.9	136	602
MW-1	06/05/13	44	78	120	830
MW-1	09/10/13	300	510	250	2200
MW-1	12/11/13	21	37	21	230
MW-1	04/04/14	81	130	120	800
MW-1	10/24/14	73	32	95	1300
MW-1	05/31/15	68	79	95	940
MW-1	11/21/15	160	67	98	1200
MW-1	04/17/16	81	99	68	1100
MW-1	10/15/16	56	72	150	1300
MW-1	06/07/17	9.5	<10	32	95
MW-1	11/14/17	42	74	68	570
MW-1	05/15/18	47	120	100	870
DP-01(MW-1)*	05/15/18	54	150	130	1100
MW-1	10/27/18	20	23	57	370
DUP-01(MW-1)*	10/27/18	18	20	44	290
MW-2	10/15/99	<0.5	2.1	5.5	2.8
MW-2	07/15/02	<0.5	0.6	0.9	1.4
MW-2	04/17/08	<2	<2	<2	<6
MW-2	04/06/09	<1	<1	<1	<2
MW-2	06/02/10	<2	<2	<2	<6
MW-2	05/09/11	<1	<1	<1	<3
MW-2	05/15/12	<1	<1	<1	<3
MW-2	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-2	09/10/13	<0.14	<0.30	<0.20	<0.23
MW-2	12/11/13	<2.0	<3.8	<2.0	<6.5
MW-2	04/04/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/24/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-2	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-2	10/15/16	<1.0	<5.0	<1.0	<5.0

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-2	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-2	11/14/17	<1.0	<1.0	<1.0	<10
MW-2	05/15/18	<1.0	<1.0	<1.0	<10
MW-2	10/27/18	<1.0	<1.0	<1.0	<10
MW-3	10/15/99	<0.5	0.9	<0.5	3.1
MW-3	07/03/01	<0.5	<0.5	<0.5	<0.5
MW-3	04/17/08	<2	<2	<2	<6
MW-3	04/06/09	<1	<1	<1	<2
MW-3	06/02/10	<2	<2	<2	<6
MW-3	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-3	09/10/13	<0.14	<0.30	<0.20	<0.23
MW-3	12/11/13	<0.20	<0.38	<0.20	<0.65
MW-3	04/04/14	<0.20	<0.38	<0.20	<0.65
MW-3	10/24/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-3	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-3	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-3	11/14/17	<1.0	<1.0	<1.0	<10
MW-3	05/15/18	<1.0	<1.0	<1.0	<10
MW-3	10/27/18	<1.0	<1.0	<1.0	<10

Notes:

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

"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 is an approximate value.

"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

*Field Duplicate results presented immediately below primary sample result

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/05/96	6049.42	30.58	30.10	0.48	6019.20
MW-1	02/07/97	6049.42	30.05	29.91	0.14	6019.47
MW-1	05/06/97	6049.42	30.18	30.04	0.14	6019.34
MW-1	04/11/01	6049.42	31.81	30.61	1.20	6018.51
MW-1	07/03/01	6049.42	32.76	31.18	1.58	6017.84
MW-1	09/04/01	6049.42	31.80	30.68	1.12	6018.46
MW-1	10/01/01	6049.42	31.41	31.16	0.25	6018.19
MW-1	01/02/02	6049.42	32.17	31.20	0.97	6017.97
MW-1	04/01/02	6049.42	31.45	31.09	0.36	6018.24
MW-1	07/15/02	6049.42	32.35	31.43	0.92	6017.76
MW-1	10/08/02	6049.42	31.73	31.33	0.40	6017.99
MW-1	01/27/03	6049.42	31.59	31.21	0.38	6018.11
MW-1	04/26/03	6049.42	31.30	31.16	0.14	6018.22
MW-1	07/17/03	6049.42	32.31	31.73	0.58	6017.54
MW-1	01/19/04	6049.42	31.49	31.32	0.17	6018.05
MW-1	07/27/04	6049.42	32.47	31.89	0.58	6017.38
MW-1	10/20/04	6049.42	32.24	31.95	0.29	6017.39
MW-1	01/25/05	6049.42	31.91	31.75	0.16	6017.63
MW-1	04/14/05	6049.42	31.52	ND		6017.90
MW-1	07/19/05	6049.42	32.43	32.32	0.11	6017.07
MW-1	10/21/05	6049.42	32.02	ND		6017.40
MW-1	01/23/06	6049.42	31.93	31.92	0.01	6017.49
MW-1	04/28/06	6049.42	31.85	ND		6017.57
MW-1	07/26/06	6049.42	31.94	ND		6017.48
MW-1	10/24/06	6049.42	30.71	ND		6018.71
MW-1	01/17/07	6049.42	30.99	ND		6018.43
MW-1	04/24/07	6049.42	30.95	ND		6018.47
MW-1	07/31/07	6049.42	31.32	ND		6018.10
MW-1	10/25/07	6049.42	31.40	ND		6018.02
MW-1	01/25/08	6049.42	31.12	ND		6018.30
MW-1	04/17/08	6049.42	31.04	ND		6018.38
MW-1	07/23/08	6049.42	31.23	ND		6018.19
MW-1	10/08/08	6049.42	31.77	ND		6017.65
MW-1	01/16/09	6049.42	31.74	31.66	0.08	6017.74
MW-1	04/06/09	6049.42	31.82	ND		6017.60
MW-1	08/25/09	6049.42	32.30	ND		6017.12
MW-1	11/02/09	6049.42	32.20	ND		6017.22
MW-1	02/16/10	6049.42	31.74	ND		6017.68
MW-1	06/02/10	6049.42	31.53	31.50	0.03	6017.91
MW-1	09/27/10	6049.42	31.89	ND		6017.53
MW-1	11/01/10	6049.42	31.76	ND		6017.66

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	02/01/11	6049.42	31.63	ND		6017.79
MW-1	05/09/11	6049.42	31.60	ND		6017.82
MW-1	09/23/11	6049.42	32.40	ND		6017.02
MW-1	11/02/11	6049.42	32.27	ND		6017.15
MW-1	02/22/12	6049.42	31.99	ND		6017.43
MW-1	05/15/12	6049.42	32.08	ND		6017.34
MW-1	06/05/13	6049.42	31.80	ND		6017.62
MW-1	09/10/13	6049.42	31.30	ND		6018.12
MW-1	12/11/13	6049.42	31.16	ND		6018.26
MW-1	04/04/14	6049.42	31.22	ND		6018.20
MW-1	10/24/14	6049.42	31.50	ND		6017.92
MW-1	05/31/15	6049.42	31.36	ND		6018.06
MW-1	11/21/15	6049.42	31.01	ND		6018.41
MW-1	04/17/16	6049.42	30.23	ND		6019.19
MW-1	10/15/16	6049.42	31.11	ND		6018.31
MW-1	06/07/17	6049.42	30.70	ND		6018.72
MW-1	09/17/17	6049.42	31.35	ND		6018.07
MW-1	11/14/17	6049.42	30.82	ND		6018.60
MW-1	05/15/18	6049.42	31.23	ND		6018.19
MW-1	10/27/18	6049.42	31.40	ND		6018.02
MW-2	10/15/99	6049.22	27.97	NR		6021.25
MW-2	07/03/01	6049.22	32.51	NR		6016.71
MW-2	09/04/01	6049.22	28.30	NR		6020.92
MW-2	10/01/01	6049.22	28.61	NR		6020.61
MW-2	07/15/02	6049.22	31.46	NR		6017.76
MW-2	10/08/02	6049.22	30.77	NR		6018.45
MW-2	01/27/03	6049.22	30.64	ND		6018.58
MW-2	04/26/03	6049.22	31.51	ND		6017.71
MW-2	07/17/03	6049.22	31.23	ND		6017.99
MW-2	01/19/04	6049.22	31.14	ND		6018.08
MW-2	07/27/04	6049.22	31.37	ND		6017.85
MW-2	10/20/04	6049.22	31.33	ND		6017.89
MW-2	01/25/05	6049.22	31.56	ND		6017.66
MW-2	04/14/05	6049.22	31.33	ND		6017.89
MW-2	07/19/05	6049.22	31.97	ND		6017.25
MW-2	10/21/05	6049.22	31.09	ND		6018.13
MW-2	01/23/06	6049.22	31.19	ND		6018.03
MW-2	04/28/06	6049.22	31.21	ND		6018.01
MW-2	07/26/06	6049.22	31.24	ND		6017.98
MW-2	10/24/06	6049.22	30.55	ND		6018.67

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	01/17/07	6049.22	30.29	ND		6018.93
MW-2	04/24/07	6049.22	30.75	ND		6018.47
MW-2	07/31/07	6049.22	30.56	ND		6018.66
MW-2	10/25/07	6049.22	30.71	ND		6018.51
MW-2	01/25/08	6049.22	30.41	ND		6018.81
MW-2	04/17/08	6049.22	30.36	ND		6018.86
MW-2	07/23/08	6049.22	31.14	ND		6018.08
MW-2	10/08/08	6049.22	31.57	ND		6017.65
MW-2	01/16/09	6049.22	30.98	ND		6018.24
MW-2	04/06/09	6049.22	31.40	ND		6017.82
MW-2	08/25/09	6049.22	31.85	ND		6017.37
MW-2	11/02/09	6049.22	31.93	ND		6017.29
MW-2	02/16/10	6049.22	31.43	ND		6017.79
MW-2	06/02/10	6049.22	31.33	ND		6017.89
MW-2	09/27/10	6049.22	31.63	ND		6017.59
MW-2	11/01/10	6049.22	31.57	ND		6017.65
MW-2	02/01/11	6049.22	31.39	ND		6017.83
MW-2	05/09/11	6049.22	31.40	ND		6017.82
MW-2	09/23/11	6049.22	32.05	ND		6017.17
MW-2	11/02/11	6049.22	32.01	ND		6017.21
MW-2	02/22/12	6049.22	31.76	ND		6017.46
MW-2	05/15/12	6049.22	31.87	ND		6017.35
MW-2	06/05/13	6049.22	31.56	ND		6017.66
MW-2	09/10/13	6049.22	31.13	ND		6018.09
MW-2	12/11/13	6049.22	30.95	ND		6018.27
MW-2	04/04/14	6049.22	31.02	ND		6018.20
MW-2	10/24/14	6049.22	31.32	ND		6017.90
MW-2	05/31/15	6049.22	31.37	ND		6017.85
MW-2	11/21/15	6049.22	30.80	ND		6018.42
MW-2	04/17/16	6049.22	30.75	ND		6018.47
MW-2	10/15/16	6049.22	30.89	ND		6018.33
MW-2	06/07/17	6049.22	30.48	ND		6018.74
MW-2	11/14/17	6049.22	30.61	ND		6018.61
MW-2	05/15/18	6049.22	31.03	ND		6018.19
MW-2	10/27/18	6049.22	31.19	ND		6018.03
MW-3	10/15/99	6049.32	27.92	NR		6021.40
MW-3	07/03/01	6049.32	28.97	NR		6020.35
MW-3	09/04/01	6049.32	28.40	NR		6020.92
MW-3	10/01/01	6049.32	28.63	NR		6020.69
MW-3	07/15/02	6049.32	31.46	NR		6017.86

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	10/08/02	6049.32	31.22	NR		6018.10
MW-3	01/27/03	6049.32	31.11	ND		6018.21
MW-3	04/26/03	6049.32	30.99	ND		6018.33
MW-3	07/17/03	6049.32	31.62	ND		6017.70
MW-3	01/19/04	6049.32	30.66	ND		6018.66
MW-3	07/27/04	6049.32	31.30	ND		6018.02
MW-3	10/20/04	6049.32	31.32	ND		6018.00
MW-3	01/25/05	6049.32	31.08	ND		6018.24
MW-3	04/14/05	6049.32	30.87	ND		6018.45
MW-3	07/19/05	6049.32	31.56	ND		6017.76
MW-3	10/21/05	6049.32	31.66	ND		6017.66
MW-3	01/23/06	6049.32	31.61	ND		6017.71
MW-3	04/28/06	6049.32	31.62	ND		6017.70
MW-3	07/26/06	6049.32	31.72	ND		6017.60
MW-3	10/24/06	6049.32	30.03	ND		6019.29
MW-3	01/17/07	6049.32	30.81	ND		6018.51
MW-3	04/24/07	6049.32	30.28	ND		6019.04
MW-3	07/31/07	6049.32	31.12	ND		6018.20
MW-3	10/25/07	6049.32	31.19	ND		6018.13
MW-3	01/25/08	6049.32	20.93	ND		6028.39
MW-3	04/17/08	6049.32	30.36	ND		6018.96
MW-3	07/23/08	6049.32	30.58	ND		6018.74
MW-3	10/08/08	6049.32	31.15	ND		6018.17
MW-3	01/16/09	6049.32	31.47	ND		6017.85
MW-3	04/06/09	6049.32	30.93	ND		6018.39
MW-3	08/25/09	6049.32	31.60	ND		6017.72
MW-3	11/02/09	6049.32	31.47	ND		6017.85
MW-3	02/16/10	6049.32	30.89	ND		6018.43
MW-3	06/02/10	6049.32	30.88	ND		6018.44
MW-3	09/27/10	6049.32	31.20	ND		6018.12
MW-3	11/01/10	6049.32	30.96	ND		6018.36
MW-3	02/01/11	6049.32	30.91	ND		6018.41
MW-3	05/09/11	6049.32	30.95	ND		6018.37
MW-3	09/23/11	6049.32	31.55	ND		6017.77
MW-3	11/02/11	6049.32	31.52	ND		6017.80
MW-3	02/22/12	6049.32	31.37	ND		6017.95
MW-3	05/15/12	6049.32	31.45	ND		6017.87
MW-3	06/05/13	6049.32	31.15	ND		6018.17
MW-3	09/10/13	6049.32	30.58	ND		6018.74
MW-3	12/11/13	6049.32	30.43	ND		6018.89
MW-3	04/04/14	6049.32	30.51	ND		6018.81

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	10/24/14	6049.32	30.82	ND		6018.50
MW-3	05/31/15	6049.32	30.66	ND		6018.66
MW-3	11/21/15	6049.32	30.29	ND		6019.03
MW-3	04/17/16	6049.32	30.23	ND		6019.09
MW-3	10/15/16	6049.32	30.42	ND		6018.90
MW-3	06/07/17	6049.32	30.01	ND		6019.31
MW-3	11/14/17	6049.32	30.10	ND		6019.22
MW-3	05/15/18	6049.32	30.57	ND		6018.75
MW-3	10/27/18	6049.32	30.72	ND		6018.60

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

FIGURES

FIGURE 1: MAY 15, 2018 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 2: MAY 15, 2018 GROUNDWATER ELEVATION MAP

FIGURE 3: OCTOBER 27, 2018 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: OCTOBER 27, 2018 GROUNDWATER ELEVATION MAP



AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/3/2016

LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- SOIL BORING
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

DP = FIELD DUPLICATE SAMPLE

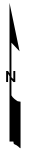
EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.

µg/L = MICROGRAMS PER LITER

<1 = BELOW METHOD DETECTION LIMIT

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



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/27/2019	SLG	SLG	SRV

TITLE:

**GROUNDWATER ANALYTICAL RESULTS
MAY 15, 2018**

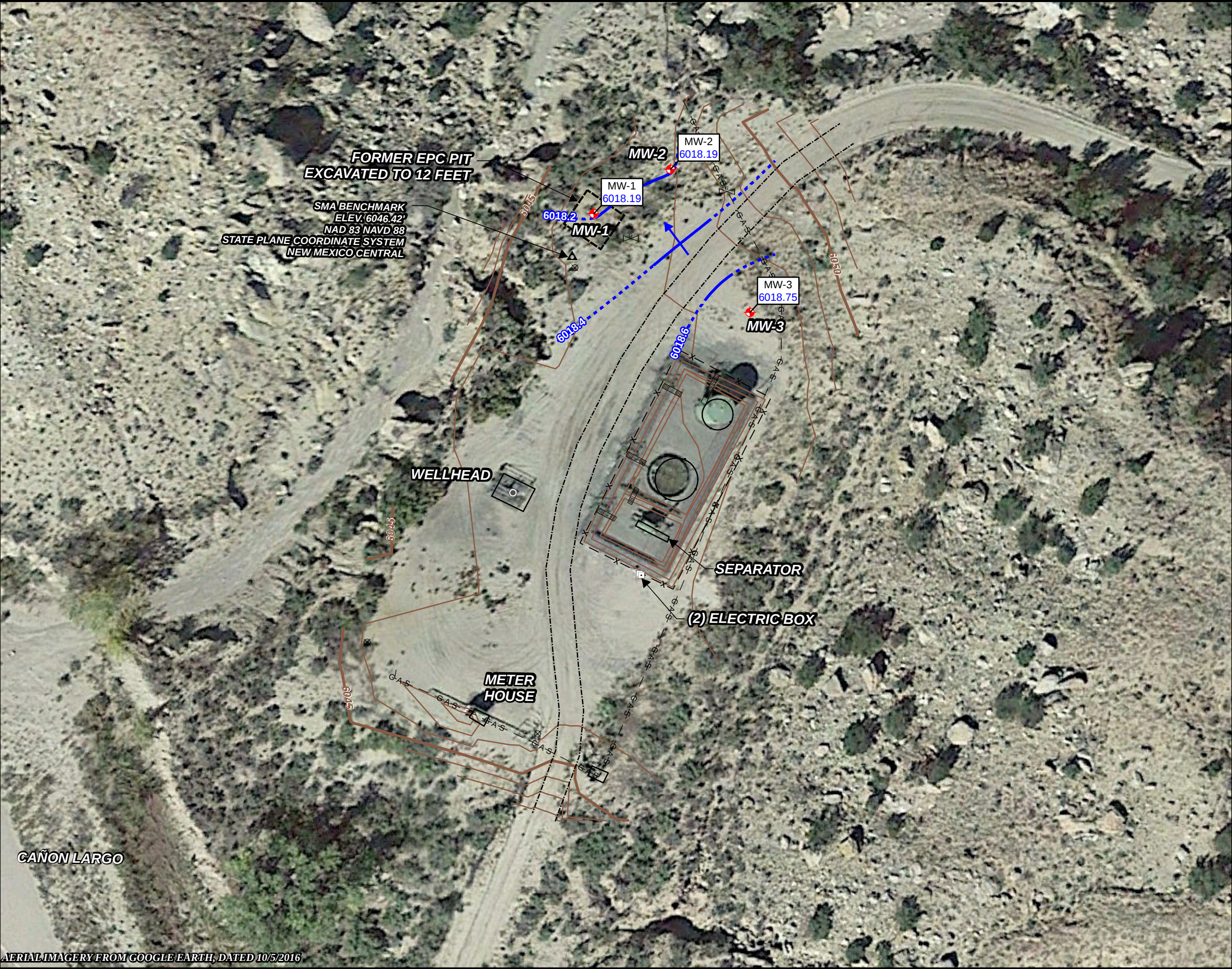
PROJECT:

**MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARriba COUNTY, NEW MEXICO**



Figure No.:

1



CAÑON LARGO

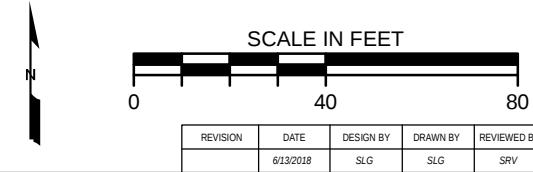
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/5/2016

LEGEND:

- 6050 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS NATURAL GAS LINE
- X FENCE
- GAS VALVE
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

- 6019.03 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL
- 6018.2 WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.2 FOOT CONTOUR INTERVAL)
- DIRECTION OF APPARENT GROUNDWATER FLOW



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	6/13/2018	SLG	SLG	SRV

TITLE:
*GROUNDWATER ELEVATION MAP
MAY 15, 2018*

PROJECT: *MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO*



Figure No.:

2



LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- SOIL BORING
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

DUP = FIELD DUPLICATE SAMPLE

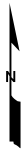
EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.

µg/L = MICROGRAMS PER LITER

<1 = BELOW METHOD DETECTION LIMIT

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



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/27/2019	SLG	SLG	SRV

TITLE:

**GROUNDWATER ANALYTICAL RESULTS
OCTOBER 27, 2018**

PROJECT:

**MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARriba COUNTY, NEW MEXICO**



Figure No.:

3

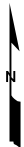


LEGEND:

- 6050** APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS--- NATURAL GAS LINE
- X--- FENCE
- GAS VALVE
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

- 6019.03** GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL
- 6018.3** WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.2 FOOT CONTOUR INTERVAL)
- DIRECTION OF APPARENT GROUNDWATER FLOW



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/14/2019	SLG	SLG	SRV

TITLE:

**GROUNDWATER ELEVATION MAP
OCOTBER 27, 2018**

PROJECT:

**MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO**



Figure No.:

4

APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – WASTE DISPOSAL DOCUMENTATION

APPENDIX C – MAY 15, 2018 GROUNDWATER SAMPLING ANALYTICAL REPORT
OCTOBER 27, 2018 GROUNDWATER SAMPLING ANALYTICAL
REPORT

APPENDIX A

From: [Varsa, Steve](#)
To: [Fields, Vanessa, EMNRD](#); [Smith, Cory, EMNRD](#)
Cc: ["Bayliss, Randolph, EMNRD"](#); [Griswold, Jim, EMNRD](#); ["Wiley, Joe"](#)
Bcc: [Sarah Gardner \(sarah.gardner@stantec.com\)](#); [Varsa, Steve](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, May 09, 2018 9:23:00 AM

Vanessa and Cory -

This correspondence is to provide notice to the NMOCD of upcoming groundwater sampling and monitoring activities at the following project sites:

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	5/15/2018
Fields A#7A	3RP-170-0	5/17/2018
Fogelson 4-1	3RP-068-0	5/17/2018
Gallegos Canyon Unit #124E	3RP-407-0	5/17/2018
GCU Com A #142E	3RP-179-0	5/17/2018
James F. Bell #1E	3RP-196-0	5/19/2019
Johnston Fed #4	3RP-201-0	5/16/2018
Johnston Fed #6A	3RP-202-0	5/16/2018
K27 LDO72	3RP-204-0	5/15/2018
Knight #1	3RP-207-0	5/19/2019
Lateral L 40 Line Drip	3RP-212-0	5/18/2018
Lat O-21 Line Drip	3RP-213-0	5/16/2018
Miles Fed #1A	3RP-223-0	5/15/2018
Sandoval GC A #1A	3RP-235-0	5/16/2018
Standard Oil Com #1	3RP-238-0	5/15/2018
State Gas Com N #1	3RP-239-0	5/18/2018

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

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From: [Varsa, Steve](#)
To: [Fields, Vanessa, EMNRD](#); [Smith, Cory, EMNRD](#)
Cc: ["Bayliss, Randolph, EMNRD"](#); [Griswold, Jim, EMNRD](#); ["Wiley, Joe"](#)
Bcc: [Varsa, Steve](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Tuesday, October 23, 2018 1:22:00 PM

Vanessa and Cory -

This correspondence is to provide notice to the NMOCD of upcoming groundwater sampling and monitoring activities at the following project sites:

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	10/27/2018
Fields A#7A	3RP-170-0	10/26/2018
Fogelson 4-1	3RP-068-0	10/28/2018
Gallegos Canyon Unit #124E	3RP-407-0	10/28/2018
GCU Com A #142E	3RP-179-0	10/28/2018
James F. Bell #1E	3RP-196-0	10/29/2018
Johnston Fed #4	3RP-201-0	10/26/2018
Johnston Fed #6A	3RP-202-0	10/26/2018
K27 LDO72	3RP-204-0	10/27/2018
Knight #1	3RP-207-0	10/29/2018
Lateral L 40 Line Drip	3RP-212-0	10/31/2018
Miles Fed #1A	3RP-223-0	10/27/2018
Sandoval GC A #1A	3RP-235-0	10/28/2018
Standard Oil Com #1	3RP-238-0	10/27/2018
State Gas Com N #1	3RP-239-0	10/26/2018

Additionally, we will be at the State Gas Com N#1 site on October 30, 2018, to complete the proposed aquifer testing activities. We will be completing aquifer testing using slug-out methods, and collecting recovery measurements manually over several days.

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

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APPENDIX B

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002

2. Originating Site(s):

Canada Mesa #2, Johnston Federal #4, Johnston Federal #6A, K-27 LD072, Lat O-21 Line Drip, Miles Federal #1A, Sandoval GC A#1A, and Standard Oil Com #1.

3. Location of Material (Street Address, City, State or ULSTR):

Unit I, Sec. 24, T24N, R06W; Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit E, Sec. 4, T25N, R06W; Unit O, Sec. 12, R30N, R09W; Unit F, Sec. 5, T26N, R09W; Unit C, Sec. 35, T30N, R09W; and Unit N, Sec. 36, T29N, R09W, respectively.

4. Source and Description of Waste:

Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.

Estimated Volume ¹ yd³ (bbls) Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company L.L.C. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☒ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Sarah Gardner, representative for El Paso CGP Company L.L.C. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Stantec Consulting Services

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005

Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285

Method of Treatment and/or Disposal:

☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Ben Talamante

TITLE: Employee DATE: 5-16-13

SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505 8032-3936

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. **714035**

NMOC D PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 5-16-18

GENERATOR: El Paso

HAULING CO. Skintec

ORDERED BY: Joseph Wiley

DEL. TKT#.

BILL TO: El Paso

DRIVER: Suzanne Gardner
(Print Full Name)

CODES:

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		Cranda # 2	5.25 gal.	70¢			70¢	4:50 PM
2		Johnston Fed. #4	5.25 gal.					
3		Johnston Fed. #6A	5.25 gal.					
4		K-27 L D072	5.25 gal.					
5		Lat 0-21 Line Drip	5.25 gal.					

I, Suzanne Gardner 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.

☒ Approved

☐ Denied

ATTENDANT SIGNATURE [Signature]

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO.

714036

NMOC D PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE

05/16/18

GENERATOR:

El Paso

HAULING CO.

Stantec

ORDERED BY:

Joseph Wilby

DEL. TKT#.

BILL TO:

El Paso

DRIVER:

Sarah Gardner
(Print Full Name)

CODES:

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		Miles Fed #1A	525 gal	704			18 MAY 16	4:50 PM
2		Sindoval ACLA #1A	525 gal					
3		Standard Oil Can #1	5.25 gal					
4								
5								

I, Sarah Gardner 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.

☐ Approved

☐ Denied

ATTENDANT SIGNATURE

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002

2. Originating Site(s):

Fields A#7A, State Gas Com N #1, Johnston Federal #4, Johnston Federal #6A, Canada Mesa #2, K-27 LD072, Miles Federal #1A, Standard Oil Com #1.

3. Location of Material (Street Address, City, State or ULSTR):

Unit E, Sec. 34, T32N, R11W; Unit H, Sec. 16, T31N, R12W; Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit I, Sec. 24, T24N, R06W; Unit E, Sec. 4, T25N, R06W; Unit F, Sec. 5, T26N, R09W; and Unit N, Sec. 36, T29N, R09W, respectively.

4. Source and Description of Waste:

Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.

Estimated Volume ¹ yd³ (bbls) Known Volume (to be entered by the operator at the end of the haul) yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company L.L.C. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only - Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☒ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Sarah Gardner, representative for El Paso CGP Company L.L.C. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Stantec Consulting Services

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005

Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285

Method of Treatment and/or Disposal:

☐ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Alonzo Johnson

TITLE:

DATE: 10-28-18

SIGNATURE:

Surface Waste Management Facility Authorized Agent

TELEPHONE NO.:

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413

505-832-8936 or 505-334-3013

OPEN 24 Hours per Day

NO. **727110**

NMOC D PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE 10.29.19

GENERATOR: EL Paso CGP

HAULING CO. Stantec

ORDERED BY: ~~Stantec~~ & Inc. W.

DEL. TKT#.

BILL TO: EL Paso CGP

DRIVER: Sarah Gardner
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

☐ Produced Water

☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Fields A #7A State Gas Com N #1	1	1.0			180CT28 9:47AM	
2		Johnston Federal #4 Johnston Federal #6A						
3		Comada Mesa #1 H-27 LDO7R						
4		Miles Federal #1A Standard Oil Com #						
5								

I, Sarah Gardner 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.

☒ Approved

☐ Denied

ATTENDANT SIGNATURE Sarah Gardner

SAN JUAN PRINTING 0818018B

APPENDIX C

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-153922-1

Client Project/Site: EIPaso CGP Company, LLC - Miles Fed 1A

For:

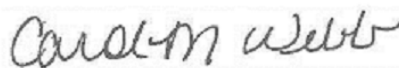
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

5/29/2018 2:51:50 PM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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results through

TotalAccess

Have a Question?



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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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QC Sample Results	13
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Method Summary	18
Chain of Custody	19
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Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Job ID: 400-153922-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-153922-1

Comments

No additional comments.

Receipt

The samples were received on 5/18/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

GC/MS 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: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: MW-1

Lab Sample ID: 400-153922-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	47		5.0	ug/L	5		8260C	Total/NA
Toluene	120		5.0	ug/L	5		8260C	Total/NA
Ethylbenzene	100		5.0	ug/L	5		8260C	Total/NA
Xylenes, Total	870		50	ug/L	5		8260C	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-153922-2

No Detections.

Client Sample ID: MW-3

Lab Sample ID: 400-153922-3

No Detections.

Client Sample ID: DP-01

Lab Sample ID: 400-153922-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	54		2.0	ug/L	2		8260C	Total/NA
Toluene	150		2.0	ug/L	2		8260C	Total/NA
Ethylbenzene	130		2.0	ug/L	2		8260C	Total/NA
Xylenes, Total - DL	1100		50	ug/L	5		8260C	Total/NA

Client Sample ID: TB (5/15/18)

Lab Sample ID: 400-153922-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-153922-1	MW-1	Water	05/15/18 14:20	05/18/18 09:10
400-153922-2	MW-2	Water	05/15/18 14:15	05/18/18 09:10
400-153922-3	MW-3	Water	05/15/18 14:10	05/18/18 09:10
400-153922-4	DP-01	Water	05/15/18 00:00	05/18/18 09:10
400-153922-5	TB (5/15/18)	Water	05/15/18 14:00	05/18/18 09:10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: MW-1

Date Collected: 05/15/18 14:20

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	47		5.0	ug/L			05/24/18 17:27	5
Toluene	120		5.0	ug/L			05/24/18 17:27	5
Ethylbenzene	100		5.0	ug/L			05/24/18 17:27	5
Xylenes, Total	870		50	ug/L			05/24/18 17:27	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118				05/24/18 17:27	5
Dibromofluoromethane	106		81 - 121				05/24/18 17:27	5
1,2-Dichloroethane-d4 (Surr)	102		67 - 134				05/24/18 17:27	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: MW-2

Date Collected: 05/15/18 14:15

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			05/24/18 14:10	1
Toluene	<1.0		1.0	ug/L			05/24/18 14:10	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 14:10	1
Xylenes, Total	<10		10	ug/L			05/24/18 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		78 - 118				05/24/18 14:10	1
Dibromofluoromethane	108		81 - 121				05/24/18 14:10	1
1,2-Dichloroethane-d4 (Surr)	111		67 - 134				05/24/18 14:10	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: MW-3
Date Collected: 05/15/18 14:10
Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			05/24/18 14:32	1
Toluene	<1.0		1.0	ug/L			05/24/18 14:32	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 14:32	1
Xylenes, Total	<10		10	ug/L			05/24/18 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		78 - 118				05/24/18 14:32	1
Dibromofluoromethane	108		81 - 121				05/24/18 14:32	1
1,2-Dichloroethane-d4 (Surr)	107		67 - 134				05/24/18 14:32	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: DP-01
Date Collected: 05/15/18 00:00
Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	54		2.0	ug/L			05/24/18 17:05	2
Toluene	150		2.0	ug/L			05/24/18 17:05	2
Ethylbenzene	130		2.0	ug/L			05/24/18 17:05	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		78 - 118				05/24/18 17:05	2
Dibromofluoromethane	105		81 - 121				05/24/18 17:05	2
1,2-Dichloroethane-d4 (Surr)	102		67 - 134				05/24/18 17:05	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1100		50	ug/L			05/25/18 19:58	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118				05/25/18 19:58	5
Dibromofluoromethane	98		81 - 121				05/25/18 19:58	5
1,2-Dichloroethane-d4 (Surr)	82		67 - 134				05/25/18 19:58	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: TB (5/15/18)

Date Collected: 05/15/18 14:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			05/24/18 12:42	1
Toluene	<1.0		1.0	ug/L			05/24/18 12:42	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 12:42	1
Xylenes, Total	<10		10	ug/L			05/24/18 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		78 - 118				05/24/18 12:42	1
Dibromofluoromethane	106		81 - 121				05/24/18 12:42	1
1,2-Dichloroethane-d4 (Surr)	103		67 - 134				05/24/18 12:42	1

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

GC/MS VOA

Analysis Batch: 398772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-153922-1	MW-1	Total/NA	Water	8260C	
400-153922-2	MW-2	Total/NA	Water	8260C	
400-153922-3	MW-3	Total/NA	Water	8260C	
400-153922-4	DP-01	Total/NA	Water	8260C	
400-153922-5	TB (5/15/18)	Total/NA	Water	8260C	
MB 400-398772/5	Method Blank	Total/NA	Water	8260C	
LCS 400-398772/1003	Lab Control Sample	Total/NA	Water	8260C	
400-153735-A-7 MS	Matrix Spike	Total/NA	Water	8260C	
400-153735-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 398968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-153922-4 - DL	DP-01	Total/NA	Water	8260C	
MB 400-398968/4	Method Blank	Total/NA	Water	8260C	
LCS 400-398968/1002	Lab Control Sample	Total/NA	Water	8260C	
400-153834-A-6 MS	Matrix Spike	Total/NA	Water	8260C	
400-153834-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

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

Lab Sample ID: MB 400-398772/5

Matrix: Water

Analysis Batch: 398772

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			05/24/18 10:28	1
Toluene	<1.0		1.0	ug/L			05/24/18 10:28	1
Ethylbenzene	<1.0		1.0	ug/L			05/24/18 10:28	1
Xylenes, Total	<10		10	ug/L			05/24/18 10:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		78 - 118		05/24/18 10:28	1
Dibromofluoromethane	108		81 - 121		05/24/18 10:28	1
1,2-Dichloroethane-d4 (Surr)	102		67 - 134		05/24/18 10:28	1

Lab Sample ID: LCS 400-398772/1003

Matrix: Water

Analysis Batch: 398772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	56.7		ug/L		113	70 - 130
Toluene	50.0	55.5		ug/L		111	70 - 130
Ethylbenzene	50.0	55.9		ug/L		112	70 - 130
Xylenes, Total	100	115		ug/L		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	88		78 - 118
Dibromofluoromethane	104		81 - 121
1,2-Dichloroethane-d4 (Surr)	103		67 - 134

Lab Sample ID: 400-153735-A-7 MS

Matrix: Water

Analysis Batch: 398772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	58.2		ug/L		116	56 - 142
Toluene	<1.0		50.0	55.0		ug/L		110	65 - 130
Ethylbenzene	<1.0		50.0	55.0		ug/L		110	58 - 131
Xylenes, Total	<10		100	111		ug/L		111	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	105		81 - 121
1,2-Dichloroethane-d4 (Surr)	100		67 - 134

Lab Sample ID: 400-153735-A-7 MSD

Matrix: Water

Analysis Batch: 398772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	54.4		ug/L		109	56 - 142	7	30
Toluene	<1.0		50.0	53.0		ug/L		106	65 - 130	4	30

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

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

Lab Sample ID: 400-153735-A-7 MSD

Matrix: Water

Analysis Batch: 398772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<1.0		50.0	53.5		ug/L		107	58 - 131	3	30
Xylenes, Total	<10		100	108		ug/L		108	59 - 130	3	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	94		78 - 118								
Dibromofluoromethane	104		81 - 121								
1,2-Dichloroethane-d4 (Surr)	99		67 - 134								

Lab Sample ID: MB 400-398968/4

Matrix: Water

Analysis Batch: 398968

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			05/25/18 12:45	1
Toluene	<1.0		1.0	ug/L			05/25/18 12:45	1
Ethylbenzene	<1.0		1.0	ug/L			05/25/18 12:45	1
Xylenes, Total	<10		10	ug/L			05/25/18 12:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				05/25/18 12:45	1
Dibromofluoromethane	102		81 - 121				05/25/18 12:45	1
1,2-Dichloroethane-d4 (Surr)	86		67 - 134				05/25/18 12:45	1

Lab Sample ID: LCS 400-398968/1002

Matrix: Water

Analysis Batch: 398968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	100	83.3		ug/L		83	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	86		78 - 118				
Dibromofluoromethane	103		81 - 121				
1,2-Dichloroethane-d4 (Surr)	84		67 - 134				

Lab Sample ID: 400-153834-A-6 MS

Matrix: Water

Analysis Batch: 398968

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	<10		100	83.3		ug/L		83	59 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene	91		78 - 118						
Dibromofluoromethane	102		81 - 121						
1,2-Dichloroethane-d4 (Surr)	84		67 - 134						

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

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

Lab Sample ID: 400-153834-A-6 MSD

Matrix: Water

Analysis Batch: 398968

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	80.2		ug/L	—	80	59 - 130	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	102		81 - 121
1,2-Dichloroethane-d4 (Surr)	81		67 - 134

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Client Sample ID: MW-1

Date Collected: 05/15/18 14:20

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-1

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	8260C		5	5 mL	5 mL	398772	05/24/18 17:27	BSW	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: MW-2

Date Collected: 05/15/18 14:15

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-2

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	8260C		1	5 mL	5 mL	398772	05/24/18 14:10	BSW	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: MW-3

Date Collected: 05/15/18 14:10

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-3

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	8260C		1	5 mL	5 mL	398772	05/24/18 14:32	BSW	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: DP-01

Date Collected: 05/15/18 00:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-4

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	8260C		2	5 mL	5 mL	398772	05/24/18 17:05	BSW	TAL PEN
Instrument ID: CH_LARS										
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	398968	05/25/18 19:58	RS	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: TB (5/15/18)

Date Collected: 05/15/18 14:00

Date Received: 05/18/18 09:10

Lab Sample ID: 400-153922-5

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	8260C		1	5 mL	5 mL	398772	05/24/18 12:42	BSW	TAL PEN
Instrument ID: CH_LARS										

Laboratory References:

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

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-19
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	06-30-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-18
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-18
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-18
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-19
Rhode Island	State Program	1	LAO00307	12-30-18
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-153922-1

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

TestAmerica

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

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Company: Stantec Consulting Services Inc Address: 1560 Broadway Suite 1800 City: Denver State/Zip: CO, 80202 Phone: 303-291-2239(Tel) Email: sarah.gardner@mwhglobal.com Project Name: Miles Fed 1A Q2 2018 Site: Miles Fed 4A		Sampler: S. Gardner / S. Hansen Lab PM: Webb, Carol M E-Mail: carol.webb@testamericainc.com Phone: 303 291 2239		Lab No: 400-153922 COC Carrier Tracking No(s): 400-74086-29208.1 Page: Page 1 of 1 Job #:	
Analysis Requested Due Date Requested: TAT Requested (days): PO #: See Project Notes WO #: Project #: 40005479 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:			
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=oil, BT=tissue, A=air) Preservation Code: Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 8260C - BTEX 8260		Total Number of Containers Special Instructions/Note:			
mw-1 mw-2 mw-3 DP-61 TB (5/15/18)		5/15/18 1420 G W 5/15/18 1415 G W 5/15/18 1410 G W 5/15/18 - G W 5/15/18 1400 - W		3 3 3 3 3	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/OC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Sarah Gardner</i>		Date/Time: 5/17/18 800		Company: Stantec	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.0°C IR 7	

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-153922-1

Login Number: 153922

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C IR-7
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-161322-1

Client Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

Revision: 1

For:

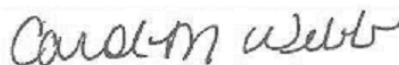
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

3/14/2019 10:34:43 AM

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

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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: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Job ID: 400-161322-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-161322-1

Comments

No additional comments.

Receipt

The samples were received on 10/30/2018 9:38 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-418228 was outside control limits. Sample matrix interference is suspected.

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

VOA Prep

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: MW-1

Lab Sample ID: 400-161322-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		1.0	ug/L	1		8260C	Total/NA
Toluene	23		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	57		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	370	F1	10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-161322-2

No Detections.

Client Sample ID: MW-3

Lab Sample ID: 400-161322-3

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-161322-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	18		1.0	ug/L	1		8260C	Total/NA
Toluene	20		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	44		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	290		10	ug/L	1		8260C	Total/NA

Client Sample ID: TB-01

Lab Sample ID: 400-161322-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-161322-1	MW-1	Water	10/27/18 14:00	10/30/18 09:38
400-161322-2	MW-2	Water	10/27/18 13:55	10/30/18 09:38
400-161322-3	MW-3	Water	10/27/18 13:50	10/30/18 09:38
400-161322-4	DUP-01	Water	10/27/18 13:40	10/30/18 09:38
400-161322-5	TB-01	Water	10/27/18 13:35	10/30/18 09:38

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: MW-1

Date Collected: 10/27/18 14:00

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	20		1.0	ug/L			11/03/18 17:12	1
Toluene	23		1.0	ug/L			11/03/18 17:12	1
Ethylbenzene	57		1.0	ug/L			11/03/18 17:12	1
Xylenes, Total	370	F1	10	ug/L			11/03/18 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		78 - 118		11/03/18 17:12	1
Dibromofluoromethane	102		81 - 121		11/03/18 17:12	1
1,2-Dichloroethane-d4 (Surr)	101		67 - 134		11/03/18 17:12	1

TestAmerica Pensacola

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: MW-2
Date Collected: 10/27/18 13:55
Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 23:04	1
Toluene	<1.0		1.0	ug/L			11/03/18 23:04	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 23:04	1
Xylenes, Total	<10		10	ug/L			11/03/18 23:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		78 - 118				11/03/18 23:04	1
Dibromofluoromethane	105		81 - 121				11/03/18 23:04	1
1,2-Dichloroethane-d4 (Surr)	105		67 - 134				11/03/18 23:04	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: MW-3
Date Collected: 10/27/18 13:50
Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 23:29	1
Toluene	<1.0		1.0	ug/L			11/03/18 23:29	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 23:29	1
Xylenes, Total	<10		10	ug/L			11/03/18 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118				11/03/18 23:29	1
Dibromofluoromethane	103		81 - 121				11/03/18 23:29	1
1,2-Dichloroethane-d4 (Surr)	100		67 - 134				11/03/18 23:29	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: DUP-01

Date Collected: 10/27/18 13:40

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18		1.0	ug/L			11/03/18 23:54	1
Toluene	20		1.0	ug/L			11/03/18 23:54	1
Ethylbenzene	44		1.0	ug/L			11/03/18 23:54	1
Xylenes, Total	290		10	ug/L			11/03/18 23:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118				11/03/18 23:54	1
Dibromofluoromethane	102		81 - 121				11/03/18 23:54	1
1,2-Dichloroethane-d4 (Surr)	99		67 - 134				11/03/18 23:54	1

TestAmerica Pensacola

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: TB-01

Date Collected: 10/27/18 13:35

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/03/18 19:17	1
Toluene	<1.0		1.0	ug/L			11/03/18 19:17	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 19:17	1
Xylenes, Total	<10		10	ug/L			11/03/18 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		78 - 118		11/03/18 19:17	1
Dibromofluoromethane	102		81 - 121		11/03/18 19:17	1
1,2-Dichloroethane-d4 (Surr)	99		67 - 134		11/03/18 19:17	1

TestAmerica Pensacola

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

GC/MS VOA

Analysis Batch: 418228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-161322-1	MW-1	Total/NA	Water	8260C	
400-161322-2	MW-2	Total/NA	Water	8260C	
400-161322-3	MW-3	Total/NA	Water	8260C	
400-161322-4	DUP-01	Total/NA	Water	8260C	
400-161322-5	TB-01	Total/NA	Water	8260C	
MB 400-418228/4	Method Blank	Total/NA	Water	8260C	
LCS 400-418228/1002	Lab Control Sample	Total/NA	Water	8260C	
400-161322-1 MS	MW-1	Total/NA	Water	8260C	
400-161322-1 MSD	MW-1	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

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

Lab Sample ID: MB 400-418228/4

Matrix: Water

Analysis Batch: 418228

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			11/03/18 16:42	1
Toluene	<1.0		1.0	ug/L			11/03/18 16:42	1
Ethylbenzene	<1.0		1.0	ug/L			11/03/18 16:42	1
Xylenes, Total	<10		10	ug/L			11/03/18 16:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		78 - 118		11/03/18 16:42	1
Dibromofluoromethane	100		81 - 121		11/03/18 16:42	1
1,2-Dichloroethane-d4 (Surr)	102		67 - 134		11/03/18 16:42	1

Lab Sample ID: LCS 400-418228/1002

Matrix: Water

Analysis Batch: 418228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	53.0		ug/L		106	70 - 130
Toluene	50.0	54.2		ug/L		108	70 - 130
Ethylbenzene	50.0	54.6		ug/L		109	70 - 130
Xylenes, Total	100	109		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		78 - 118
Dibromofluoromethane	104		81 - 121
1,2-Dichloroethane-d4 (Surr)	103		67 - 134

Lab Sample ID: 400-161322-1 MS

Matrix: Water

Analysis Batch: 418228

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20		50.0	68.4		ug/L		98	56 - 142
Toluene	23		50.0	72.7		ug/L		99	65 - 130
Ethylbenzene	57		50.0	102		ug/L		89	58 - 131
Xylenes, Total	370	F1	100	437		ug/L		68	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	93		78 - 118
Dibromofluoromethane	103		81 - 121
1,2-Dichloroethane-d4 (Surr)	99		67 - 134

Lab Sample ID: 400-161322-1 MSD

Matrix: Water

Analysis Batch: 418228

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20		50.0	66.0		ug/L		93	56 - 142	4	30
Toluene	23		50.0	68.0		ug/L		90	65 - 130	7	30

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

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

Lab Sample ID: 400-161322-1 MSD

Matrix: Water

Analysis Batch: 418228

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	57		50.0	95.2		ug/L		76	58 - 131	7	30
Xylenes, Total	370	F1	100	412	F1	ug/L		42	59 - 130	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	99		78 - 118
Dibromofluoromethane	103		81 - 121
1,2-Dichloroethane-d4 (Surr)	102		67 - 134

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Client Sample ID: MW-1

Date Collected: 10/27/18 14:00

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-1

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	8260C		1	5 mL	5 mL	418228	11/03/18 17:12	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-2

Date Collected: 10/27/18 13:55

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-2

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	8260C		1	5 mL	5 mL	418228	11/03/18 23:04	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: MW-3

Date Collected: 10/27/18 13:50

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-3

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	8260C		1	5 mL	5 mL	418228	11/03/18 23:29	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: DUP-01

Date Collected: 10/27/18 13:40

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-4

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	8260C		1	5 mL	5 mL	418228	11/03/18 23:54	BSW	TAL PEN
Instrument ID: CH_WASP										

Client Sample ID: TB-01

Date Collected: 10/27/18 13:35

Date Received: 10/30/18 09:38

Lab Sample ID: 400-161322-5

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	8260C		1	5 mL	5 mL	418228	11/03/18 19:17	BSW	TAL PEN
Instrument ID: CH_WASP										

Laboratory References:

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

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

TestAmerica Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Miles Fed 1A

TestAmerica Job ID: 400-161322-1

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



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-161322-1

Login Number: 161322

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	