

2017 ANNUAL GROUNDWATER REPORT

Fields A#7A
NMOCD Case#: 3RP-170-0
Meter Code: 89961
T32N, R11W, S 34, Unit E

SITE DETAILS

Site Location: Latitude: 36.944245 N, Longitude: -107.982116 W
Land Type: Federal
Operator: BP

SITE BACKGROUND

Environmental Remediation activities at the Fields A#7A (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 BP America Production Company and is active.

The Site is located on Federal land. An initial site assessment was completed in August 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in September of 1994, removing approximately 70 cubic yards (cy) of soil. Various site investigations have occurred since 1994. Monitoring wells MW-1, MW-2, MW-3 and MW-4 were installed in 1995. Temporary piezometers PZ-1 through PZ-5 were installed and removed in 1997. Monitoring wells MW-4R and MW-5 though MW-11 were installed in 2016. Historically, free product has been observed and periodically recovered. Free product was not observed in 2017. Currently, groundwater sampling is conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to the NMOCD on May 30, 2017, and November 6, 2017, prior to initiating groundwater sampling activities at the Site. Copies of the 2017 NMOCD notifications are provided in Appendix A. On June 6, and November 13, 2017, water levels were gauged at MW-1, MW-4R, and MW-5 through MW-11. Groundwater samples were collected from each well gauged on May 30, 2017, and from monitoring wells MW-1, MW-4R, MW-7, MW-8 and MW-10 on November 6, 2017. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event. 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.

The 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,

2017 ANNUAL GROUNDWATER REPORT

Fields A#7A
NMOCD Case#: 3RP-170-0
Meter Code: 89961
T32N, R11W, S 34, Unit E

ethylbenzene, and total xylenes (BTEX). As requested by the NMOCD on November 13, 2018, BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260 during the November sampling event. The unused sample water was placed in a waste container and taken to Basin Disposal, Inc. for disposal. Waste disposal documentation is included as Appendix B.

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively.

SITE MAPS

Groundwater analytical maps (Figures 1 and 3) and groundwater elevation maps (Figures 2 and 4) summarize results of the 2017 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The June and November 2017 groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- Groundwater elevations indicate a flow direction to the southwest (see Figures 2 and 4).
- Groundwater samples collected in 2017 from MW-1, MW-4R, MW-5, MW-6, MW-7, and MW-8 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Benzene was either below the NMWQCC standard (10 µg/L) or not detected in monitoring wells, MW-9, MW-10, and MW-11.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in all of the Site monitoring wells sampled in 2017.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in all of the Site monitoring wells sampled in 2017.
- Concentrations of total xylenes were either below the NMWQCC standard (620 µg/L) or not detected in all of the Site monitoring wells sampled in 2017.

PLANNED FUTURE ACTIVITIES

Pursuant to the work plan dated September 18, 2017, EPCGP will continue to conduct semi-annual groundwater monitoring events through 2018. Monitoring wells MW-1,

2017 ANNUAL GROUNDWATER REPORT

Fields A#7A
NMOCD Case#: 3RP-170-0
Meter Code: 89961
T32N, R11W, S 34, Unit E

MW-4R, MW-7, MW-8, and MW-10 will be sampled during these events and analyzed for BTEX constituents using EPA Method 8260.

EPCGP will await NMOCD receipt and review of information pertaining to the BP release at the site before determining what, if any, additional work may be required of EPCGP.

P:\Word Processing\KINDER MORGAN\EL PASO - NM\FIELDS A#7A\2017 ANNUAL REPORT (FIELD A#7A)\2018-03_Rpt_Fields A #7A_2017 Annual Report.doc

TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Fields A#7A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	08/09/95	1950	1946	115	1361
MW-1	01/03/96	3150	5280	361	3460
MW-1	04/18/96	1300	2140	119	1240
MW-1	07/29/96	503	804	28	363
MW-1	10/21/96	843	1300	26	422
MW-1	01/30/97	1300	2200	76.8	966
MW-1	04/21/97	951	1920	73	894
MW-1	01/26/04	121	54	15.8	216
MW-1	04/21/04	116	58.1	29.3	83.3
MW-1	04/18/05	108	29	14.2	274
MW-1	10/22/05	180	69.2	6.3	154
MW-1	04/25/06	83.7	23.8	2.1 J	82.5
MW-1	10/24/06	254	108	4	169
MW-1	04/24/07	106	37.2	3.3	112
MW-1	04/21/08	246	38.3	1.6 J	81.3
MW-1	04/07/09	25.5	11	0.6 J	21.5
MW-1	05/24/10	100	43.8	1.1 J	56.9
MW-1	05/04/11	158	2.6	2.4	12.1
MW-1	05/07/12	27.1	8.7	1.1	14.2
MW-1	06/07/13	910	110	14.0	170
MW-1	09/12/13	130	13	3.1	29
MW-1	12/13/13	380	30	4.7	98
MW-1	04/05/14	66	11	<0.20	10
MW-1	10/21/14	93	3.8	2.1	23
MW-1	05/31/15	230	12	2.5	43
MW-1	11/22/15	440	8.6	2.7	34
MW-1	04/15/16	150	29	2.3	36
MW-1	10/14/16	22	<5.0	<1.0	<5.0
MW-1	06/06/17	410	43	5.5	68
MW-1	11/13/17	390	27	4.9	64

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Fields A#7A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	01/03/96	28.8	<2.5	297.0	1169
MW-2	04/18/96	<1	<1	2.6	<3
MW-2	07/29/96	<2	<2	<2	<6
MW-2	10/21/96	<1	<1	<1	<3
MW-2	01/30/97	<2	<2	<2	<6
MW-2	04/21/97	<1	<1	<1	<3
MW-2	04/13/01	<0.5	<0.5	<0.5	<0.5
MW-2	04/18/05	<1	<1	<1	<2
MW-2	04/21/08	<2	<2	<2	<6
MW-2	05/04/11	0.38 J	<1	<1	<3
MW-2 abandoned on August 22, 2016					
MW-3	01/03/96	176	16.4	225.0	1550
MW-3	04/18/96	129	<2	212.0	463
MW-3	07/29/96	212	<2	167.0	393
MW-3	10/21/96	165	<1	157.0	467
MW-3	01/30/97	144	<1	198.0	851
MW-3	04/21/97	2070	4340	332.0	4730
MW-3	04/13/01	120	5.2	<5	80
MW-3	04/18/05	<1	<1	<1	<2
MW-3	04/25/06	46.4	<5	<5	<10
MW-3	04/24/07	179	<5	12.3	37.9
MW-3	04/21/08	140	2.5	2.7	16.9
MW-3	04/07/09	182	<50	<50	<100
MW-3	05/04/11	5.7	<1	0.42 J	<3
MW-3	05/07/12	14.6	<1	0.3 J	2.5 J
MW-3 abandoned on August 22, 2016					
MW-4	01/03/96	2470	1880	206.0	2350
MW-4	04/18/96	4760	2460	235.0	1880
MW-4	07/29/96	1830	2380	106.0	967
MW-4	10/21/96	3320	4520	149.0	1680
MW-4	01/30/97	4320	7420	280.0	3250
MW-4	04/21/97	2410	5170	219.0	2530
MW-4	04/21/08	1580	679	6.8 J	3900
MW-4	04/07/09	695	206	<50	745
MW-4	11/01/11	533	207	<10	419
MW-4 replaced with MW-4R on August 21, 2016					
MW-4R	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-4R	06/06/17	50	<5.0	2.1	<5.0
MW-4R	11/13/17	53	<1.0	3.4	<10

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Fields A#7A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	10/14/16	130	6.4	19.0	57
MW-5	06/06/17	78	<5.0	<1.0	<5.0
MW-6	10/14/16	2100	880	490	2300
MW-6	06/06/17	1400	130	340	610
MW-7	10/14/16	410	340	31.0	270
MW-7	06/06/17	12	<5.0	<1.0	<5.0
MW-7	11/13/17	30	12	<1.0	15
MW-8	10/14/16	2.2	<5.0	<1.0	<5.0
MW-8	06/06/17	12	<5.0	<1.0	8.5
MW-8	11/13/17	100	<1.0	<1.0	16
MW-9	10/14/16	12	8.1	4.6	34
MW-9	06/06/17	1.7	<5.0	<1.0	<5.0
MW-10	10/14/16	26	32	4.6	41
MW-10	06/06/17	<1.0	<5.0	<1.0	<5.0
MW-10	11/13/17	1.4	<1.0	<1.0	<10
MW-11	10/14/16	<1.0	<5.0	1.3	9.7
MW-11	06/06/17	<1.0	<5.0	<1.0	<5.0

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).

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	08/09/95	6085.98	22.50	NR		6063.48
MW-1	01/03/96	6085.98	23.28	NR		6062.70
MW-1	04/18/96	6085.98	24.20	NR		6061.78
MW-1	05/08/96	6085.98	24.20	NR		6061.78
MW-1	07/29/96	6085.98	25.07	25.02	0.05	6060.95
MW-1	10/21/96	6085.98	25.45	25.38	0.07	6060.59
MW-1	01/30/97	6085.98	26.83	26.57	0.26	6059.35
MW-1	04/21/97	6085.98	26.47	26.44	0.03	6059.54
MW-1	01/30/01	6085.98	30.08	28.74	1.34	6056.91
MW-1	02/08/01	6085.98	29.85	28.65	1.20	6057.03
MW-1	02/16/01	6085.98	30.20	29.08	1.12	6056.62
MW-1	02/17/01	6085.98	29.66	29.08	0.58	6056.76
MW-1	02/26/01	6085.98	29.54	29.39	0.15	6056.56
MW-1	03/05/01	6085.98	29.28	29.25	0.03	6056.73
MW-1	04/11/01	6085.98	29.33	NR		6056.65
MW-1	06/05/01	6085.98	29.46	29.34	0.12	6056.61
MW-1	06/15/01	6085.98	29.65	29.57	0.08	6056.39
MW-1	07/06/01	6085.98	30.00	NR		6055.98
MW-1	07/13/01	6085.98	29.96	NR		6056.02
MW-1	07/20/01	6085.98	29.69	NR		6056.29
MW-1	08/01/01	6085.98	30.19	NR		6055.79
MW-1	08/08/01	6085.98	30.12	NR		6055.86
MW-1	08/18/01	6085.98	30.44	NR		6055.54
MW-1	08/20/01	6085.98	30.32	NR		6055.66
MW-1	09/05/01	6085.98	30.38	NR		6055.60
MW-1	09/21/01	6085.98	30.63	NR		6055.35
MW-1	09/26/01	6085.98	30.78	NR		6055.20
MW-1	10/03/01	6085.98	30.69	NR		6055.29
MW-1	10/10/01	6085.98	30.33	30.32	0.01	6055.66
MW-1	12/04/01	6085.98	30.51	NR		6055.47
MW-1	12/13/01	6085.98	29.43	29.42	0.01	6056.56
MW-1	12/21/01	6085.98	30.40	30.39	0.01	6055.59
MW-1	12/28/01	6085.98	30.64	NR		6055.34
MW-1	01/07/02	6085.98	30.59	30.58	0.01	6055.40
MW-1	01/23/02	6085.98	30.41	30.40	0.01	6055.58
MW-1	01/31/02	6085.98	30.95	30.94	0.01	6055.04
MW-1	02/07/02	6085.98	31.12	31.11	0.01	6054.87
MW-1	02/14/02	6085.98	31.18	31.17	0.01	6054.81
MW-1	02/20/02	6085.98	31.15	31.14	0.01	6054.84
MW-1	03/21/02	6085.98	30.80	30.78	0.02	6055.20

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	03/28/02	6085.98	30.92	NR		6055.06
MW-1	04/04/02	6085.98	30.64	NR		6055.34
MW-1	04/12/02	6085.98	31.45	NR		6054.53
MW-1	04/19/02	6085.98	31.56	NR		6054.42
MW-1	04/25/02	6085.98	31.54	NR		6054.44
MW-1	05/03/02	6085.98	31.51	NR		6054.47
MW-1	05/10/02	6085.98	31.59	NR		6054.39
MW-1	05/17/02	6085.98	31.16	NR		6054.82
MW-1	05/24/02	6085.98	31.38	NR		6054.60
MW-1	05/31/02	6085.98	31.23	NR		6054.75
MW-1	06/06/02	6085.98	31.32	NR		6054.66
MW-1	06/14/02	6085.98	31.34	NR		6054.64
MW-1	06/21/02	6085.98	31.67	NR		6054.31
MW-1	06/27/02	6085.98	31.81	NR		6054.17
MW-1	07/02/02	6085.98	31.82	NR		6054.16
MW-1	07/11/02	6085.98	31.84	NR		6054.14
MW-1	07/18/02	6085.98	31.45	NR		6054.53
MW-1	08/21/02	6085.98	32.12	NR		6053.86
MW-1	10/01/02	6085.98	31.77	NR		6054.21
MW-1	01/15/03	6085.98	31.90	ND		6054.08
MW-1	04/27/03	6085.98	31.07	31.06	0.01	6054.92
MW-1	07/16/03	6085.98	31.30	ND		6054.69
MW-1	10/27/03	6085.98	30.97	ND		6055.01
MW-1	01/26/04	6085.98	30.67	ND		6055.31
MW-1	04/21/04	6085.98	30.83	ND		6055.15
MW-1	07/27/04	6085.98	30.97	ND		6055.01
MW-1	10/18/04	6085.98	31.15	ND		6054.83
MW-1	01/25/05	6085.98	30.19	ND		6055.79
MW-1	04/18/05	6085.98	30.19	ND		6055.79
MW-1	10/22/05	6085.98	30.74	ND		6055.24
MW-1	04/25/06	6085.98	31.41	ND		6054.57
MW-1	10/24/06	6085.98	31.39	ND		6054.59
MW-1	04/24/07	6085.98	31.66	ND		6054.32
MW-1	10/29/07	6085.98	31.73	ND		6054.25
MW-1	04/21/08	6085.98	30.31	ND		6055.67
MW-1	10/09/08	6085.98	30.69	ND		6055.29
MW-1	04/07/09	6085.98	31.24	ND		6054.74
MW-1	11/04/09	6085.98	31.77	ND		6054.21
MW-1	05/24/10	6085.98	31.33	ND		6054.65
MW-1	11/02/10	6085.98	29.93	ND		6056.05

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/04/11	6085.98	29.91	ND		6056.07
MW-1	11/01/11	6085.98	29.80	ND		6056.18
MW-1	05/07/12	6085.98	30.29	ND		6055.69
MW-1	06/07/13	6085.98	31.41	ND		6054.57
MW-1	09/12/13	6085.98	31.55	ND		6054.43
MW-1	12/13/13	6085.98	31.09	ND		6054.89
MW-1	04/05/14	6085.98	31.24	ND		6054.74
MW-1	10/21/14	6085.98	31.65	ND		6054.33
MW-1	05/31/15	6085.98	31.82	ND		6054.16
MW-1	11/22/15	6085.98	31.27	ND		6054.71
MW-1	04/15/16	6085.98	30.87	ND		6055.11
MW-1	10/14/16	6085.98	30.96	ND		6055.02
MW-1	06/06/17	6085.98	30.56	ND		6055.42
MW-1	11/13/17	6085.98	30.71	ND		6055.27

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	01/03/96	6084.24	24.27	NR		6059.97
MW-2	04/18/96	6084.24	25.53	NR		6058.71
MW-2	05/08/96	6084.24	25.53	NR		6058.71
MW-2	07/29/96	6084.24	26.48	NR		6057.76
MW-2	10/21/96	6084.24	26.96	NR		6057.28
MW-2	01/30/97	6084.24	27.73	NR		6056.51
MW-2	04/21/97	6084.24	27.77	NR		6056.47
MW-2	04/13/01	6084.24	30.33	NR		6053.91
MW-2	06/05/01	6084.24	30.71	NR		6053.53
MW-2	07/20/01	6084.24	30.95	NR		6053.29
MW-2	08/20/01	6084.24	31.03	NR		6053.21
MW-2	05/17/02	6084.24	31.38	NR		6052.86
MW-2	10/27/03	6084.24	31.79	NR		6052.46
MW-2	04/21/04	6084.24	31.10	ND		6053.14
MW-2	04/18/05	6084.24	30.98	ND		6053.26
MW-2	04/21/08	6084.24	30.66	ND		6053.58
MW-2	11/02/10	6084.24	29.65	ND		6054.59
MW-2	05/04/11	6084.24	31.10	ND		6053.14
MW-2	11/01/11	6084.24	31.42	ND		6052.82
MW-2	05/07/12	6084.24	31.29	ND		6052.95
MW-2	06/07/13	6084.24	DRY	ND		DRY
MW-2	09/12/13	6084.24	DRY	ND		DRY
MW-2	12/13/13	6084.24	DRY	ND		DRY
MW-2	04/05/14	6084.24	DRY	ND		DRY
MW-2	10/21/14	6084.24	DRY	ND		DRY
MW-2	05/31/15	6084.24	DRY	ND		DRY
MW-2	11/22/15	6084.24	DRY	ND		DRY
MW-2	04/15/16	6084.24	DRY	ND		DRY
MW-2 abandoned on August 22, 2016						

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	01/03/96	6084.06	24.88	NR		6059.18
MW-3	04/18/96	6084.06	25.75	NR		6058.31
MW-3	05/08/96	6084.06	25.75	NR		6058.31
MW-3	07/29/96	6084.06	26.64	NR		6057.42
MW-3	10/21/96	6084.06	27.16	NR		6056.90
MW-3	01/30/97	6084.06	27.92	NR		6056.14
MW-3	04/21/97	6084.06	28.00	NR		6056.06
MW-3	04/13/01	6084.06	30.48	NR		6053.58
MW-3	06/05/01	6084.06	30.79	NR		6053.27
MW-3	07/20/01	6084.06	31.03	NR		6053.03
MW-3	08/20/01	6084.06	31.14	NR		6052.92
MW-3	04/02/02	6084.06	31.62	NR		6052.44
MW-3	05/17/02	6084.06	32.05	NR		6052.01
MW-3	01/25/05	6084.06	31.93	ND		6052.14
MW-3	04/18/05	6084.06	30.77	ND		6053.29
MW-3	10/22/05	6084.06	31.57	ND		6052.49
MW-3	04/25/06	6084.06	31.61	ND		6052.45
MW-3	10/24/06	6084.06	31.90	ND		6052.16
MW-3	04/24/07	6084.06	31.90	ND		6052.16
MW-3	10/29/07	6084.06	31.93	ND		6052.13
MW-3	04/21/08	6084.06	30.40	ND		6053.66
MW-3	10/09/08	6084.06	31.56	ND		6052.50
MW-3	04/07/09	6084.06	31.40	ND		6052.66
MW-3	11/04/09	6084.06	31.97	ND		6052.09
MW-3	05/24/10	6084.06	31.87	ND		6052.19
MW-3	11/02/10	6084.06	29.83	ND		6054.23
MW-3	05/04/11	6084.06	30.71	ND		6053.35
MW-3	11/01/11	6084.06	31.08	ND		6052.98
MW-3	05/07/12	6084.06	31.57	ND		6052.49
MW-3	06/07/13	6084.06	DRY	ND		DRY
MW-3	09/12/13	6084.06	DRY	ND		DRY
MW-3	12/13/13	6084.06	DRY	ND		DRY
MW-3	04/05/14	6084.06	DRY	ND		DRY
MW-3	10/21/14	6084.06	DRY	ND		DRY
MW-3	05/31/15	6084.06	DRY	ND		DRY
MW-3	11/22/15	6084.06	DRY	ND		DRY
MW-3	04/15/16	6084.06	DRY	ND		DRY
MW-3 abandoned on August 22, 2016						

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	01/03/96	6084.61	25.69	NR		6058.92
MW-4	04/18/96	6084.61	26.42	NR		6058.19
MW-4	01/00/00	6084.61	26.42	25.83	0.59	6058.64
MW-4	07/29/96	6084.61	28.65	26.82	1.83	6057.34
MW-4	10/21/96	6084.61	28.84	27.45	1.39	6056.82
MW-4	01/30/97	6084.61	28.85	28.43	0.42	6056.08
MW-4	04/21/97	6084.61	28.68	28.58	0.10	6056.01
MW-4	06/05/01	6084.61	31.25	31.01	0.24	6053.54
MW-4	06/15/01	6084.61	31.56	31.12	0.44	6053.38
MW-4	07/06/01	6084.61	DRY	31.20	-	DRY
MW-4	07/13/01	6084.61	DRY	31.44	-	DRY
MW-4	07/20/01	6084.61	DRY	31.51	-	DRY
MW-4	08/01/01	6084.61	DRY	31.54	-	DRY
MW-4	08/08/01	6084.61	DRY	NR		DRY
MW-4	08/16/01	6084.61	DRY	NR		DRY
MW-4	08/20/01	6084.61	DRY	NR		DRY
MW-4	09/05/01	6084.61	DRY	NR		DRY
MW-4	09/21/01	6084.61	DRY	NR		DRY
MW-4	09/26/01	6084.61	DRY	NR		DRY
MW-4	10/03/01	6084.61	DRY	NR		DRY
MW-4	10/10/01	6084.61	DRY	NR		DRY
MW-4	12/04/01	6084.61	DRY	NR		DRY
MW-4	12/13/01	6084.61	DRY	31.65	-	DRY
MW-4	12/21/01	6084.61	DRY	31.61	-	DRY
MW-4	12/28/01	6084.61	31.61	NR		6053.00
MW-4	01/07/02	6084.61	DRY	31.61	-	DRY
MW-4	01/23/02	6084.61	DRY	31.62	-	DRY
MW-4	01/31/02	6084.61	DRY	31.61	-	DRY
MW-4	02/07/02	6084.61	DRY	31.60	-	DRY
MW-4	02/14/02	6084.61	DRY	31.62	-	DRY
MW-4	02/20/02	6084.61	DRY	31.62	-	DRY
MW-4	03/21/02	6084.61	DRY	NR		DRY
MW-4	04/04/02	6084.61	DRY	NR		DRY
MW-4	05/17/02	6084.61	DRY	NR		DRY
MW-4	05/24/02	6084.61	DRY	NR		DRY
MW-4	05/31/02	6084.61	DRY	NR		DRY
MW-4	06/06/02	6084.61	DRY	NR		DRY
MW-4	06/14/02	6084.61	DRY	NR		DRY
MW-4	07/18/02	6084.61	DRY	NR		DRY
MW-4	10/01/02	6084.61	DRY	NR		DRY

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	01/15/03	6084.61	DRY	ND		DRY
MW-4	01/26/04	6084.61	DRY	ND		DRY
MW-4	04/21/04	6084.61	DRY	ND		DRY
MW-4	07/27/04	6084.61	DRY	ND		DRY
MW-4	10/18/04	6084.61	DRY	ND		DRY
MW-4	01/25/05	6084.61	DRY	ND		DRY
MW-4	04/18/05	6084.61	DRY	ND		DRY
MW-4	04/21/08	6084.61	31.22	ND		6053.39
MW-4	10/09/08	6084.61	31.40	ND		6053.21
MW-4	04/07/09	6084.61	31.40	ND		6053.21
MW-4	11/04/09	6084.61	31.58	ND		6053.03
MW-4	05/24/10	6084.61	31.47	ND		6053.14
MW-4	11/02/10	6084.61	30.60	ND		6054.01
MW-4	05/04/11	6084.61	31.05	ND		6053.56
MW-4	11/01/11	6084.61	31.05	ND		6053.56
MW-4	05/07/12	6084.61	31.47	ND		6053.14
MW-4	06/07/13	6084.61	31.42	ND		6053.19
MW-4	09/12/13	6084.61	DRY	ND		DRY
MW-4	12/13/13	6084.61	DRY	ND		DRY
MW-4	04/05/14	6084.61	DRY	ND		DRY
MW-4	10/21/14	6084.61	DRY	ND		DRY
MW-4	05/31/15	6084.61	DRY	ND		DRY
MW-4	11/22/15	6084.61	DRY	ND		DRY
MW-4	04/15/16	6084.61	DRY	ND		DRY
MW-4 replaced with MW-4R on August 21, 2016						
MW-4R	10/14/16	6084.43	32.53	ND		6051.90
MW-4R	06/06/17	6084.43	32.13	ND		6052.30
MW-4R	11/13/17	6084.43	32.39	ND		6052.04

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Fields A#7A						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	10/14/16	6081.99	28.08	ND		6053.91
MW-5	06/06/17	6081.99	27.70	ND		6054.29
MW-5	11/13/17	6081.99	27.89	ND		6054.10
MW-6	10/14/16	6081.99	29.78	ND		6052.21
MW-6	06/06/17	6081.99	29.37	ND		6052.62
MW-6	11/13/17	6081.99	29.63	ND		6052.36
MW-7	10/14/16	6082.19	27.46	ND		6054.73
MW-7	06/06/17	6082.19	27.13	ND		6055.06
MW-7	11/13/17	6082.19	27.31	ND		6054.88
MW-8	10/14/16	6082.28	27.80	ND		6054.48
MW-8	06/06/17	6082.28	27.41	ND		6054.87
MW-8	11/13/17	6082.28	27.58	ND		6054.70
MW-9	10/14/16	6082.35	27.37	ND		6054.98
MW-9	06/06/17	6082.35	26.98	ND		6055.37
MW-9	11/13/17	6082.35	27.12	ND		6055.23
MW-10	10/14/16	6086.17	31.16	ND		6055.01
MW-10	06/06/17	6086.17	30.79	ND		6055.38
MW-10	11/13/17	6086.17	30.90	ND		6055.27
MW-11	10/14/16	6085.79	30.47	ND		6055.32
MW-11	06/06/17	6085.79	30.22	ND		6055.57
MW-11	11/13/17	6085.79	30.31	ND		6055.48

Notes:

"ft" = feet

"TOC" = Top of Casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

"DRY" = No water detected

FIGURES

FIGURE 1: JUNE 6, 2017 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 2: JUNE 6, 2017 GROUNDWATER ELEVATION MAP

FIGURE 3: NOVEMBER 13, 2017 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: NOVEMBER 13, 2017 GROUNDWATER ELEVATION MAP

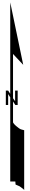


LEGEND:

- 6082** APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- SMA BENCHMARK
- MONITORING WELL
- SOIL BORING
- ABANDONED MONITORING WELL
- OTHER MONITORING WELL
- PASSIVE VENT WELL
- WELLHEAD
- UNKNOWN LINE
- UNDERGROUND ELECTRIC
- PIPELINE
- COMMUNICATION

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE** 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
A	3/27/2018	SLG	SLG	SV

TITLE:
**GROUNDWATER ANALYTICAL RESULTS
JUNE 6, 2017**

PROJECT: **FIELDS A#7A
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO**



Figure No.:

1



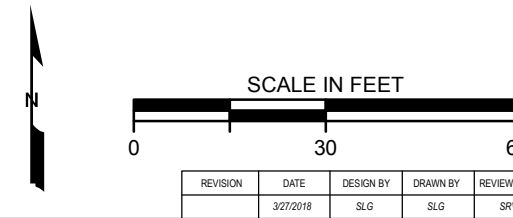
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 11.17.2013

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- SMA BENCHMARK
- MONITORING WELL
- ABANDONED MONITORING WELL
- OTHER MONITORING WELL
- PASSIVE VENT WELL
- WELLHEAD
- UNKNOWN LINE
- UNDERGROUND ELECTRIC
- PIPELINE
- COMMUNICATION

NOTES:

- GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS. FEET ABOVE MEAN SEA LEVEL
- CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW



TITLE: **GROUNDWATER ELEVATION MAP
JUNE 6, 2017**

PROJECT: **FIELDS A#7A
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO**



Figure No.:

2





APPENDICES

APPENDIX A – NOTIFICATIONS OF SAMPLING ACTIVITIES

APPENDIX B – WASTE DISPOSAL DOCUMENTATION

APPENDIX C – JUNE 6, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT
NOVEMBER 13, 2017 GROUNDWATER SAMPLING ANALYTICAL
REPORT

APPENDIX A

From: [Varsa, Steve](#)
To: Randolph.Bayliss@state.nm.us
Cc: brandon.powell@state.nm.us; [Wiley, Joe](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Tuesday, May 30, 2017 3:05:18 PM

Hi Randy –

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

Site Name	NMOCD Case #
Canada Mesa #2	3RP-155-0
Fields A#7A	3RP-170-0
Fogelson 4-1	3RP-068-0
Gallegos Canyon Unit #124E	3RP-407-0
GCU Com A #142E	3RP-179-0
Hammond #41A	3RP-186-0
James F. Bell #1E	3RP-196-0
Johnston Fed #4	3RP-201-0
Johnston Fed #6A	3RP-202-0
K27 LDO72	3RP-204-0
Knight #1	3RP-207-0
Lateral L 40 Line Drip	3RP-212-0
Lat O-21 Line Drip	3RP-213-0
Lindrith B #24	3RP-214-0
Miles Fed #1A	3RP-223-0
Sandoval GC A #1A	3RP-235-0
Standard Oil Com #1	3RP-238-0
State Gas Com N #1	3RP-239-0

Groundwater sampling and monitoring is planned to be conducted the week of June 5, 2017.

Thank you,
Steve

Stephen Varsa, P.G.
Supervising Hydrogeologist
MWH, now part of Stantec
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523

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



The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

From: [Varsa, Steve](#)
To: [Bayliss, Randolph, EMNRD](#)
Cc: [Smith, Cory, EMNRD](#); [Fields, Vanessa, EMNRD](#); [Wiley, Joe](#)
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Monday, November 06, 2017 11:41:36 AM

Hi Randy –

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

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

Groundwater sampling and monitoring is planned to be conducted November 10-14, 2017.

Please contact Joe Wiley, remediation manager with El Paso CGP Company, at (713) 420-3475, or me, if you have any questions.

Thank you,
Steve

Stephen Varsa, P.G.

Supervising Hydrogeologist
MWH, now part of Stantec
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com



The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

APPENDIX B

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.

687962

NMOC D PERMIT: NM-001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE 6-8-17

GENERATOR: EL PASO

HAULING CO. Waste Management

ORDERED BY: Joseph W. For

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	<u>01</u>	<u>JONES FR-11-1E</u>	<u>7</u>	<u>750</u>			<u>750</u>	
2		<u>STATE GAS COM #1</u>					<u>1700</u>	<u>4:13 PM</u>
3		<u>M. LOSTO 1A</u>						
4		<u>Fields #2A</u>						
5		<u>Lindath #24</u>						
		<u>Acqueduct #41A</u>						
		<u>KN-911 #1</u>						
		<u>K7710072</u>						

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

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

700071

NO.

NMOC D PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE

GENERATOR:

HAULING CO.

ORDERED BY:

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	1	Pogelson 4-1	1	75			75.00	2.30 hrs
2		State Gas Co., Knight JE Bell, Lot L-40, Std Oil Co.						
3		Sandoval, GCU 124E J-Fed 4, J-Fed 6						
4		Fields A7A, GCU 142E Pogelson, Canada Mesa, K-27						
5		Miles Fed						

I, Scott Davis

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

san juan reproduction 168-6

APPENDIX C

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 400-139062-1

Client Project/Site: ElPaso CGP Company, LLC - Fields A#7A

For:

Stantec Consulting Services Inc
1560 Broadway
Suite 1800
Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

6/22/2017 11:59:29 AM

Madonna Myers, Project Manager II
(615)796-1870

madonna.myers@testamericainc.com

Designee for

Carol Webb, Project Manager II
(850)471-6250

carol.webb@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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	17
QC Sample Results	18
Chronicle	20
Certification Summary	22
Method Summary	23
Chain of Custody	24
Receipt Checklists	25



Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

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 - Fields A#7A

TestAmerica Job ID: 400-139062-1

Job ID: 400-139062-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-139062-1

Comments

No additional comments.

Receipt

The samples were received on 6/9/2017 11:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.1° 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: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-1

Lab Sample ID: 400-139062-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	410		2.0	ug/L	2		8021B	Total/NA
Ethylbenzene	5.5		2.0	ug/L	2		8021B	Total/NA
Toluene	43		10	ug/L	2		8021B	Total/NA
Xylenes, Total	68		10	ug/L	2		8021B	Total/NA

Client Sample ID: MW-4A

Lab Sample ID: 400-139062-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	50		1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	2.1		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-139062-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	78		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-139062-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1400		20	ug/L	20		8021B	Total/NA
Ethylbenzene	340		20	ug/L	20		8021B	Total/NA
Toluene	130		100	ug/L	20		8021B	Total/NA
Xylenes, Total	610		100	ug/L	20		8021B	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-139062-5

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

Client Sample ID: MW-8

Lab Sample ID: 400-139062-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	8.5		5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-139062-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-139062-8

No Detections.

Client Sample ID: MW-11

Lab Sample ID: 400-139062-9

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-139062-10

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 - Fields A#7A

TestAmerica Job ID: 400-139062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139062-1	MW-1	Water	06/06/17 10:45	06/09/17 11:11
400-139062-2	MW-4A	Water	06/06/17 10:30	06/09/17 11:11
400-139062-3	MW-5	Water	06/06/17 10:50	06/09/17 11:11
400-139062-4	MW-6	Water	06/06/17 11:00	06/09/17 11:11
400-139062-5	MW-7	Water	06/06/17 10:55	06/09/17 11:11
400-139062-6	MW-8	Water	06/06/17 10:20	06/09/17 11:11
400-139062-7	MW-9	Water	06/06/17 10:40	06/09/17 11:11
400-139062-8	MW-10	Water	06/06/17 10:15	06/09/17 11:11
400-139062-9	MW-11	Water	06/06/17 10:00	06/09/17 11:11
400-139062-10	TRIP BLANK	Water	06/06/17 10:00	06/09/17 11:11

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-1

Lab Sample ID: 400-139062-1

Date Collected: 06/06/17 10:45

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	410		2.0	ug/L			06/14/17 15:20	2
Ethylbenzene	5.5		2.0	ug/L			06/14/17 15:20	2
Toluene	43		10	ug/L			06/14/17 15:20	2
Xylenes, Total	68		10	ug/L			06/14/17 15:20	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	86		78 - 124				06/14/17 15:20	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-4A

Lab Sample ID: 400-139062-2

Date Collected: 06/06/17 10:30

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	50		1.0	ug/L			06/14/17 13:48	1
Ethylbenzene	2.1		1.0	ug/L			06/14/17 13:48	1
Toluene	<5.0		5.0	ug/L			06/14/17 13:48	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	110		78 - 124				06/14/17 13:48	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-5

Lab Sample ID: 400-139062-3

Date Collected: 06/06/17 10:50

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	78		1.0	ug/L			06/14/17 03:36	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 03:36	1
Toluene	<5.0		5.0	ug/L			06/14/17 03:36	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 03:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	111		78 - 124				06/14/17 03:36	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-6

Lab Sample ID: 400-139062-4

Date Collected: 06/06/17 11:00

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		20	ug/L			06/13/17 23:01	20
Ethylbenzene	340		20	ug/L			06/13/17 23:01	20
Toluene	130		100	ug/L			06/13/17 23:01	20
Xylenes, Total	610		100	ug/L			06/13/17 23:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	106		78 - 124				06/13/17 23:01	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-7

Lab Sample ID: 400-139062-5

Date Collected: 06/06/17 10:55

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12		1.0	ug/L			06/14/17 12:17	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 12:17	1
Toluene	<5.0		5.0	ug/L			06/14/17 12:17	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	109		78 - 124				06/14/17 12:17	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-8

Lab Sample ID: 400-139062-6

Date Collected: 06/06/17 10:20

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12		1.0	ug/L			06/14/17 04:07	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 04:07	1
Toluene	<5.0		5.0	ug/L			06/14/17 04:07	1
Xylenes, Total	8.5		5.0	ug/L			06/14/17 04:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	107		78 - 124				06/14/17 04:07	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-9

Lab Sample ID: 400-139062-7

Date Collected: 06/06/17 10:40

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.7		1.0	ug/L			06/14/17 04:38	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 04:38	1
Toluene	<5.0		5.0	ug/L			06/14/17 04:38	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	109		78 - 124				06/14/17 04:38	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-10

Lab Sample ID: 400-139062-8

Date Collected: 06/06/17 10:15

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/14/17 06:09	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 06:09	1
Toluene	<5.0		5.0	ug/L			06/14/17 06:09	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 06:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	109		78 - 124				06/14/17 06:09	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-11

Lab Sample ID: 400-139062-9

Date Collected: 06/06/17 10:00

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/14/17 06:40	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 06:40	1
Toluene	<5.0		5.0	ug/L			06/14/17 06:40	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	109		78 - 124				06/14/17 06:40	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-139062-10

Date Collected: 06/06/17 10:00

Matrix: Water

Date Received: 06/09/17 11:11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/14/17 01:34	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 01:34	1
Toluene	<5.0		5.0	ug/L			06/14/17 01:34	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	109		78 - 124				06/14/17 01:34	1

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

GC VOA

Analysis Batch: 356821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139062-3	MW-5	Total/NA	Water	8021B	
400-139062-4	MW-6	Total/NA	Water	8021B	
400-139062-6	MW-8	Total/NA	Water	8021B	
400-139062-7	MW-9	Total/NA	Water	8021B	
400-139062-8	MW-10	Total/NA	Water	8021B	
400-139062-9	MW-11	Total/NA	Water	8021B	
400-139062-10	TRIP BLANK	Total/NA	Water	8021B	
MB 400-356821/4	Method Blank	Total/NA	Water	8021B	
LCS 400-356821/1003	Lab Control Sample	Total/NA	Water	8021B	
400-139059-A-5 MS	Matrix Spike	Total/NA	Water	8021B	
400-139059-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 356920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139062-1	MW-1	Total/NA	Water	8021B	
400-139062-2	MW-4A	Total/NA	Water	8021B	
400-139062-5	MW-7	Total/NA	Water	8021B	
MB 400-356920/2	Method Blank	Total/NA	Water	8021B	
LCS 400-356920/1001	Lab Control Sample	Total/NA	Water	8021B	
400-139062-5 MS	MW-7	Total/NA	Water	8021B	
400-139062-5 MSD	MW-7	Total/NA	Water	8021B	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-356821/4

Matrix: Water

Analysis Batch: 356821

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			06/13/17 18:26	1
Ethylbenzene	<1.0		1.0	ug/L			06/13/17 18:26	1
Toluene	<5.0		5.0	ug/L			06/13/17 18:26	1
Xylenes, Total	<5.0		5.0	ug/L			06/13/17 18:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	108		78 - 124		06/13/17 18:26	1

Lab Sample ID: LCS 400-356821/1003

Matrix: Water

Analysis Batch: 356821

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	46.1		ug/L		92	85 - 115
Ethylbenzene	50.0	46.5		ug/L		93	85 - 115
Toluene	50.0	45.4		ug/L		91	85 - 115
Xylenes, Total	150	141		ug/L		94	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	107		78 - 124

Lab Sample ID: 400-139059-A-5 MS

Matrix: Water

Analysis Batch: 356821

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	55.4		ug/L		111	44 - 150
Ethylbenzene	<1.0		50.0	56.5		ug/L		113	70 - 142
Toluene	<5.0		50.0	55.0		ug/L		110	69 - 136
Xylenes, Total	<5.0		150	172		ug/L		115	68 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	107		78 - 124

Lab Sample ID: 400-139059-A-5 MSD

Matrix: Water

Analysis Batch: 356821

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	57.7		ug/L		115	44 - 150	4	16
Ethylbenzene	<1.0		50.0	58.4		ug/L		117	70 - 142	3	16
Toluene	<5.0		50.0	56.9		ug/L		114	69 - 136	3	16
Xylenes, Total	<5.0		150	178		ug/L		118	68 - 142	3	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	106		78 - 124

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

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

Lab Sample ID: MB 400-356920/2

Matrix: Water

Analysis Batch: 356920

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			06/14/17 10:25	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 10:25	1
Toluene	<5.0		5.0	ug/L			06/14/17 10:25	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 10:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	107		78 - 124		06/14/17 10:25	1

Lab Sample ID: LCS 400-356920/1001

Matrix: Water

Analysis Batch: 356920

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	55.6		ug/L		111	85 - 115
Ethylbenzene	50.0	55.2		ug/L		110	85 - 115
Toluene	50.0	54.2		ug/L		108	85 - 115
Xylenes, Total	150	166		ug/L		111	85 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	108		78 - 124

Lab Sample ID: 400-139062-5 MS

Matrix: Water

Analysis Batch: 356920

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	12		50.0	71.2		ug/L		118	44 - 150
Ethylbenzene	<1.0		50.0	61.5		ug/L		123	70 - 142
Toluene	<5.0		50.0	60.1		ug/L		118	69 - 136
Xylenes, Total	<5.0		150	189		ug/L		124	68 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	106		78 - 124

Lab Sample ID: 400-139062-5 MSD

Matrix: Water

Analysis Batch: 356920

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	12		50.0	71.2		ug/L		118	44 - 150	0	16
Ethylbenzene	<1.0		50.0	62.0		ug/L		124	70 - 142	1	16
Toluene	<5.0		50.0	60.6		ug/L		119	69 - 136	1	16
Xylenes, Total	<5.0		150	191		ug/L		124	68 - 142	1	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene (pid)	106		78 - 124

TestAmerica Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-1

Date Collected: 06/06/17 10:45

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-1

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		2	5 mL	5 mL	356920	06/14/17 15:20	CMW	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-4A

Date Collected: 06/06/17 10:30

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-2

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	356920	06/14/17 13:48	CMW	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-5

Date Collected: 06/06/17 10:50

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-3

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	356821	06/14/17 03:36	MKA	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-6

Date Collected: 06/06/17 11:00

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-4

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		20	5 mL	5 mL	356821	06/13/17 23:01	MKA	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-7

Date Collected: 06/06/17 10:55

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-5

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	356920	06/14/17 12:17	CMW	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-8

Date Collected: 06/06/17 10:20

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-6

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	356821	06/14/17 04:07	MKA	TAL PEN
Instrument ID: CH_PAULA										

TestAmerica Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

Client Sample ID: MW-9

Date Collected: 06/06/17 10:40

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-7

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	356821	06/14/17 04:38	MKA	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-10

Date Collected: 06/06/17 10:15

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-8

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	356821	06/14/17 06:09	MKA	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: MW-11

Date Collected: 06/06/17 10:00

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/14/17 06:40	MKA	TAL PEN
Instrument ID: CH_PAULA										

Client Sample ID: TRIP BLANK

Date Collected: 06/06/17 10:00

Date Received: 06/09/17 11:11

Lab Sample ID: 400-139062-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/14/17 01:34	MKA	TAL PEN
Instrument ID: CH_PAULA										

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: EIPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

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	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
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	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
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	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Fields A#7A

TestAmerica Job ID: 400-139062-1

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

Chain of Custody Record

Client Information		Carrier Tracking No(s)		COC No:			
Sampler:	Sarah Gardner / Justin Gardner			400-65856-26931.1			
Phone:	303 291 2239	Lab PM:		Page:			
Client Contact:	Ms. Sarah Gardner	Webb, Carol M		Page 1 of 1			
Company:		E-Mail:		Job #:			
Siantec Consulting Services Inc		carol.webb@testamericainc.com					
Analysis Requested							
Due Date Requested:		Total Number of containers					
TAT Requested (days):	Standard						
PO #:	Purchase Order Requested						
WO #:							
Project #:	40005479						
Email:	sarah.gardner@mwglobal.com						
Project Name:	Fields A#7A						
Site:	Fields A#7A						
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater) BT=Tissue, A=Air	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
MW-1	6/6/2017	1045	G	W	X	A	
MW-4A	6/6/2017	1030	G	W	X		
MW-5	6/6/2017	1050	G	W	X		
MW-6	6/6/2017	1100	G	W	X		
MW-7	6/6/2017	1055	G	W	X		
MW-8	6/6/2017	1020	G	W	X		
MW-9	6/6/2017	1040	G	W	X		
MW-10	6/6/2017	1015	G	W	X		
MW-11	6/6/2017	1000	G	W	X		
TRIP	6/6/2017	1000		W	X		
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					☐ Return To Client ☒ Disposal By Lab Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:		
Empty Kit Relinquished by:					Method of Shipment:		
Relinquished by: <i>Sarah Gardner</i>					Received by:		
Relinquished by: <i>Sarah Gardner</i>					Date/Time: 6/18/2017 845		
Relinquished by:					Date/Time:		
Relinquished by:					Date/Time:		
Custody Seal No.: 35182072					Cooler Temperature(s) °C and Other Remarks:		

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-139062-1

Login Number: 139062

List Source: TestAmerica Pensacola

List Number: 1

Creator: Johnson, Jeremy N

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	3.1°C, 2.7°C IR2
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	

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: 400-145976-1

Client Project/Site: El Paso CGP Company - Fields A 7

For:

Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

11/20/2017 12:18:00 PM

Madonna Myers, Project Manager II

(615)796-1870

madonna.myers@testamericainc.com

Designee for

Carol Webb, Project Manager II

(850)471-6250

carol.webb@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14

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	13
QC Sample Results	14
Chronicle	16
Certification Summary	18
Method Summary	19
Chain of Custody	20
Receipt Checklists	21



Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

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: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Job ID: 400-145976-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-145976-1

Comments

No additional comments.

Receipt

The samples were received on 11/14/2017 9:01 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.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Per client instructions, method 8260 was used in place of method 8021.

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: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-145976-1

No Detections.

Client Sample ID: MW-1

Lab Sample ID: 400-145976-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	390		2.0	ug/L	2		8260C	Total/NA
Toluene	27		2.0	ug/L	2		8260C	Total/NA
Ethylbenzene	4.9		2.0	ug/L	2		8260C	Total/NA
Xylenes, Total	64		20	ug/L	2		8260C	Total/NA

Client Sample ID: MW-4R

Lab Sample ID: 400-145976-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	53		1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	3.4		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-145976-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	30		1.0	ug/L	1		8260C	Total/NA
Toluene	12		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	15		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-145976-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	16		10	ug/L	1		8260C	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-145976-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		1.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-145976-1	TRIP BLANK	Water	11/13/17 08:10	11/14/17 09:01
400-145976-2	MW-1	Water	11/13/17 09:06	11/14/17 09:01
400-145976-3	MW-4R	Water	11/13/17 09:00	11/14/17 09:01
400-145976-4	MW-7	Water	11/13/17 08:47	11/14/17 09:01
400-145976-5	MW-8	Water	11/13/17 08:54	11/14/17 09:01
400-145976-6	MW-10	Water	11/13/17 08:42	11/14/17 09:01

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-145976-1

Date Collected: 11/13/17 08:10

Matrix: Water

Date Received: 11/14/17 09:01

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			11/18/17 09:48	1
Toluene	<1.0		1.0	ug/L			11/18/17 09:48	1
Ethylbenzene	<1.0		1.0	ug/L			11/18/17 09:48	1
Xylenes, Total	<10		10	ug/L			11/18/17 09:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		81 - 121		11/18/17 09:48	1
4-Bromofluorobenzene	97		78 - 118		11/18/17 09:48	1
Toluene-d8 (Surr)	92		80 - 120		11/18/17 09:48	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: MW-1

Date Collected: 11/13/17 09:06

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	390		2.0	ug/L			11/18/17 16:48	2
Toluene	27		2.0	ug/L			11/18/17 16:48	2
Ethylbenzene	4.9		2.0	ug/L			11/18/17 16:48	2
Xylenes, Total	64		20	ug/L			11/18/17 16:48	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	106		81 - 121				11/18/17 16:48	2
4-Bromofluorobenzene	102		78 - 118				11/18/17 16:48	2
Toluene-d8 (Surr)	95		80 - 120				11/18/17 16:48	2

TestAmerica Pensacola

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: MW-4R

Date Collected: 11/13/17 09:00

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	53		1.0	ug/L			11/18/17 10:13	1
Toluene	<1.0		1.0	ug/L			11/18/17 10:13	1
Ethylbenzene	3.4		1.0	ug/L			11/18/17 10:13	1
Xylenes, Total	<10		10	ug/L			11/18/17 10:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	108		81 - 121				11/18/17 10:13	1
4-Bromofluorobenzene	103		78 - 118				11/18/17 10:13	1
Toluene-d8 (Surr)	93		80 - 120				11/18/17 10:13	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: MW-7

Date Collected: 11/13/17 08:47

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	30		1.0	ug/L			11/18/17 14:43	1
Toluene	12		1.0	ug/L			11/18/17 14:43	1
Ethylbenzene	<1.0		1.0	ug/L			11/18/17 14:43	1
Xylenes, Total	15		10	ug/L			11/18/17 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		81 - 121				11/18/17 14:43	1
4-Bromofluorobenzene	103		78 - 118				11/18/17 14:43	1
Toluene-d8 (Surr)	90		80 - 120				11/18/17 14:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: MW-8

Date Collected: 11/13/17 08:54

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	100		1.0	ug/L			11/18/17 15:08	1
Toluene	<1.0		1.0	ug/L			11/18/17 15:08	1
Ethylbenzene	<1.0		1.0	ug/L			11/18/17 15:08	1
Xylenes, Total	16		10	ug/L			11/18/17 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	106		81 - 121				11/18/17 15:08	1
4-Bromofluorobenzene	103		78 - 118				11/18/17 15:08	1
Toluene-d8 (Surr)	96		80 - 120				11/18/17 15:08	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: MW-10

Date Collected: 11/13/17 08:42

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.4		1.0	ug/L			11/18/17 15:32	1
Toluene	<1.0		1.0	ug/L			11/18/17 15:32	1
Ethylbenzene	<1.0		1.0	ug/L			11/18/17 15:32	1
Xylenes, Total	<10		10	ug/L			11/18/17 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		81 - 121				11/18/17 15:32	1
4-Bromofluorobenzene	100		78 - 118				11/18/17 15:32	1
Toluene-d8 (Surr)	92		80 - 120				11/18/17 15:32	1

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

GC/MS VOA

Analysis Batch: 376472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145976-1	TRIP BLANK	Total/NA	Water	8260C	
400-145976-2	MW-1	Total/NA	Water	8260C	
400-145976-3	MW-4R	Total/NA	Water	8260C	
400-145976-4	MW-7	Total/NA	Water	8260C	
400-145976-5	MW-8	Total/NA	Water	8260C	
400-145976-6	MW-10	Total/NA	Water	8260C	
MB 400-376472/4	Method Blank	Total/NA	Water	8260C	
LCS 400-376472/1002	Lab Control Sample	Total/NA	Water	8260C	
400-145976-3 MS	MW-4R	Total/NA	Water	8260C	
400-145976-3 MSD	MW-4R	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

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

Lab Sample ID: MB 400-376472/4

Matrix: Water

Analysis Batch: 376472

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			11/18/17 09:00	1
Toluene	<1.0		1.0	ug/L			11/18/17 09:00	1
Ethylbenzene	<1.0		1.0	ug/L			11/18/17 09:00	1
Xylenes, Total	<10		10	ug/L			11/18/17 09:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		81 - 121		11/18/17 09:00	1
4-Bromofluorobenzene	100		78 - 118		11/18/17 09:00	1
Toluene-d8 (Surr)	93		80 - 120		11/18/17 09:00	1

Lab Sample ID: LCS 400-376472/1002

Matrix: Water

Analysis Batch: 376472

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.9		ug/L		102	70 - 130
Toluene	50.0	43.2		ug/L		86	70 - 130
Ethylbenzene	50.0	43.7		ug/L		87	70 - 130
Xylenes, Total	100	87.5		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	106		81 - 121
4-Bromofluorobenzene	104		78 - 118
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 400-145976-3 MS

Matrix: Water

Analysis Batch: 376472

Client Sample ID: MW-4R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	53		50.0	106		ug/L		107	56 - 142
Toluene	<1.0		50.0	43.0		ug/L		86	65 - 130
Ethylbenzene	3.4		50.0	45.7		ug/L		85	58 - 131
Xylenes, Total	<10		100	84.2		ug/L		84	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane	111		81 - 121
4-Bromofluorobenzene	103		78 - 118
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 400-145976-3 MSD

Matrix: Water

Analysis Batch: 376472

Client Sample ID: MW-4R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	53		50.0	101		ug/L		97	56 - 142	5	30
Toluene	<1.0		50.0	38.3		ug/L		77	65 - 130	12	30

TestAmerica Pensacola

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

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

Lab Sample ID: 400-145976-3 MSD

Matrix: Water

Analysis Batch: 376472

Client Sample ID: MW-4R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	3.4		50.0	39.3		ug/L		72	58 - 131	15	30
Xylenes, Total	<10		100	72.6		ug/L		73	59 - 130	15	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Dibromofluoromethane	107		81 - 121								
4-Bromofluorobenzene	105		78 - 118								
Toluene-d8 (Surr)	94		80 - 120								

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Client Sample ID: TRIP BLANK

Date Collected: 11/13/17 08:10

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-1

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	376472	11/18/17 09:48	WPD	TAL PEN
Instrument ID: CH_TAN										

Client Sample ID: MW-1

Date Collected: 11/13/17 09:06

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-2

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		2	5 mL	5 mL	376472	11/18/17 16:48	WPD	TAL PEN
Instrument ID: CH_TAN										

Client Sample ID: MW-4R

Date Collected: 11/13/17 09:00

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-3

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	376472	11/18/17 10:13	WPD	TAL PEN
Instrument ID: CH_TAN										

Client Sample ID: MW-7

Date Collected: 11/13/17 08:47

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-4

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	376472	11/18/17 14:43	WPD	TAL PEN
Instrument ID: CH_TAN										

Client Sample ID: MW-8

Date Collected: 11/13/17 08:54

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-5

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	376472	11/18/17 15:08	WPD	TAL PEN
Instrument ID: CH_TAN										

Client Sample ID: MW-10

Date Collected: 11/13/17 08:42

Date Received: 11/14/17 09:01

Lab Sample ID: 400-145976-6

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	8260C		1	5 mL	5 mL	376472	11/18/17 15:32	WPD	TAL PEN
Instrument ID: CH_TAN										

TestAmerica Pensacola

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Laboratory References:

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

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
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
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	12-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
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	12-31-17
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
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	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: El Paso CGP Company - Fields A 7

TestAmerica Job ID: 400-145976-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-145976-1

Login Number: 145976

List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

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	0.0°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	