2017 ANNUAL GROUNDWATER REPORT

Sandoval GC A#1A NMOCD Case#: 3RP-235-0 Meter Code: 89620

Latitude: 36.772101, Longitude: -107.753601

SITE DETAILS

Site Location: Latitude: 36.772101, Longitude: -107.753601

Land Type: Federal

Operator: BP/America Production Company

SITE BACKGROUND

Environmental Remediation activities at the Sandoval GC A#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 (EPCPG) 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 May 1994. Two excavations were completed at the site, the first in September 1994, removing approximately 50 cubic yards, and the second in July 1997, removing 504 cubic yards. The total excavated depth is approximately 28 feet below ground surface (bgs). Various site investigations have occurred since 1994. A monitoring well was installed in 1994 (MW-1). Additional borings were advanced in 1995 and 1997. In October 2001 an oxygen release compound (ORC) nutrient injection was conducted. Wells MW-2 through MW-5 were installed in 2015. Free product was encountered in monitoring well MW-2 at the Site 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 8 and November 11, 2017, water levels were gauged at MW-1, MW-2, MW-3, MW-4 and MW-5. Groundwater samples were collected from each well that did not contain free product using HydraSleeveTM (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless steel weights to collect a sample from the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). As requested by the NMOCD on November 13, 2017, BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260 during the November sampling event. The unused sample water was

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combined 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 contour maps (Figures 2 and 4) summarize results of the 2017 groundwater sampling and gauging events.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

GROUNDWATER RESULTS

- The groundwater flow direction at the Site is generally to the east (see Figure 2 and 4).
- Groundwater samples collected in 2017 from MW-1, MW-2, MW-3, MW-4, and MW-5 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [μg/L]) for benzene in groundwater.
- Groundwater samples collected in 2017 from MW-2 and MW-5 exceeded the NMWQCC standard (750 µg/L) for toluene in groundwater. Toluene was either below the NMWQCC standard or not detected in monitoring wells MW-1, MW-3, and MW-4.
- Groundwater samples collected in 2017 from MW-2 and MW-5 exceeded the NMWQCC standard (750 μg/L) for ethylbenzene in groundwater. Ethylbenzene was either below the NMWQCC standard or not detected in monitoring wells MW-1, MW-3, and MW-4.
- Groundwater samples collected in 2017 from MW-2 and MW-5 exceeded the NMWQCC standard (620 μg/L) for total xylenes in groundwater. Total xylenes were either below the NMWQCC standard or not detected in monitoring wells MW-1, MW-3, and MW-4.

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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 sampled during these events will be analyzed for BTEX constituents using EPA Method 8260. The results will be summarized in the 2018 Annual report for the Site, submitted in early 2019.

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

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TABLES

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Sandoval GC A #1A									
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)				
NMWQCC	Standards:	10	750	750	620				
MW-1	05/30/95	5500	3980	579	4780				
MW-1	04/12/96	10400	8960	925	10100				
MW-1	07/26/96	8980	7980	1000	9430				
MW-1	10/18/96	11050	9960	900	10700				
MW-1	01/21/97	7700	7210	787	8430				
MW-1	04/16/97	8900	8680	996	9250				
MW-1	07/11/97	8240	7850	709	8230				
MW-1	09/04/97	4420	2370	850	9660				
MW-1	10/22/97	3460	39.6	714	7690				
MW-1	01/06/98	3850	194	795	8570				
MW-1	04/23/98	4330	406	783	7220				
MW-1	04/19/99	4300	1260	629	7440				
MW-1	04/13/00	2300	1500	590	5900				
MW-1	05/30/01	05/30/01 2800 710 560		560	5200				
MW-1	05/16/02	3000	1500	440	5300				
MW-1	05/21/03	3850	601	443	6360				
MW-1	11/16/04	2490	30.9	346	2860				
MW-1	11/08/05	338	8.5	80.1	757				
MW-1	11/08/06	198	3.4	14.9	83.6				
MW-1	11/29/07	441	3.8	52.2	72.2				
MW-1	11/18/08	120	<2	17.9	8.3				
MW-1	11/04/09	88.4	<1	14.8	4.3				
MW-1	11/09/10	54	<2	8.7	12.7				
MW-1	11/16/11	31.3	<1	14.2	8.9				
MW-1	06/08/13	0.27 J	< 0.30	<0.20	<0.23				
MW-1	09/09/13	0.36 J	< 0.30	<0.20	<0.23				
MW-1	12/12/13	0.31 J	<0.38	<0.20	< 0.65				
MW-1	04/02/14	1.1 J	1.7 J	<0.20	1.4 J				
MW-1	10/23/14	3.3	<0.70	3.8	<1.6				
MW-1	05/30/15	5.7	<5.0	5.3	6				
MW-1	11/20/15	8.3	<5.0	5.2	14				
MW-1	04/19/16	<2.0	<10	<2.0	<10				
MW-1	10/16/16	3.2	<5.0	2	<5.0				
MW-1	06/08/17	5.2	<5.0	2.4	7.9				
MW-1	11/11/17	10	<1.0	<1.0	<10				

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

	Sandoval GC A #1A									
Location Date		Benzene Toluene (µg/L)		Ethylbenzene (µg/L)	Total Xylenes (µg/L)					
NMWQCC	Standards:	10	750	750	620					
MW-2	11/20/15	2400	3700	530	7400					
MW-2*	04/19/16*	3.2	<5.0	<1.0	10					
MW-2	11/11/17	3500	4300	940	12000					
MW-3	11/20/15	55	62	16	140					
MW-3	04/19/16	1.6	<5.0	1.8	40					
MW-3	10/16/16	<1.0	<5.0	<1.0	<5.0					
MW-3	06/08/17	<1.0	<5.0	<1.0	<5.0					
MW-3	11/11/17	23	27	2	18					
MW-4	11/20/15	490	<10	4.0	140					
MW-4*	04/19/16*	6600	8200	1200	16000					
MW-4	10/16/16	22	<5.0	<1.0	9.6					
MW-4	06/08/17	33	<5.0	<1.0	<5.0					
MW-4	11/11/17	7	<1.0	<1.0	<10					
MW-5	11/20/15	7500	17000	590	7100					
MW-5	04/19/16	5800	1600	680	6100					
MW-5	10/16/16	4700	6700	1000	10000					
MW-5	06/08/17	4800	6000	1600	16000					
MW-5	11/11/17	3800	4300	1100	11000					

Notes:

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

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

- "J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
- "<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
- "*" = It is believed the groundwater sample analytical results for MW-2 and MW-4 were switched for this sampling event, as discussed in the 2016 Annual Groundwater Report for this Site.

[&]quot;µg/L" = micrograms per liter

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Sandoval GC A #1A									
Location	GW Elevation (ft.)								
MW-1	Date 05/30/95	TOC 5716.63	Water (ft.) 34.49	NR	Thickness (ft.)	5682.14			
MW-1	04/12/96	5716.63	35.39	NR		5681.24			
MW-1	07/26/96	5716.63	35.61	NR		5681.02			
MW-1	10/18/96	5716.63	35.79	NR		5680.84			
MW-1	01/21/97	5716.63	35.80	NR		5680.83			
MW-1	04/16/97	5716.63	35.99	NR		5680.64			
MW-1	07/11/97	5716.63	36.05	NR		5680.58			
MW-1	09/04/97	5716.63	35.18	NR		5681.45			
MW-1	10/22/97	5716.63	35.14	NR		5681.49			
MW-1	01/06/98	5716.63	35.10	NR		5681.53			
MW-1	04/23/98	5716.63	35.15	NR		5681.48			
MW-1	04/19/99	5716.63	35.10	NR		5681.53			
MW-1	04/13/00	5716.63	34.70	NR		5681.93			
MW-1	05/30/01	5716.63	34.97	NR		5681.66			
MW-1	10/08/01	5716.63	35.19	NR		5681.44			
MW-1	05/16/02	5716.63	35.11	NR		5681.52			
MW-1	05/21/03	5716.63	35.26	ND		5681.37			
MW-1	11/16/04	5716.63	34.84	ND		5681.79			
MW-1	11/08/05	5716.63	33.87	ND		5682.76			
MW-1	11/08/06	5716.63	34.02	ND		5682.61			
MW-1	11/29/07	5716.63	33.29	ND		5683.34			
MW-1	11/18/08	5716.63	33.41	ND		5683.22			
MW-1	11/04/09	5716.63	33.64	ND		5682.99			
MW-1	06/03/10	5716.63	33.46	ND		5683.17			
MW-1	11/09/10	5716.63	32.94	ND		5683.69			
MW-1	11/16/11	5716.63	33.28	ND		5683.35			
MW-1	06/08/13	5716.63	33.67	ND		5682.96			
MW-1	09/09/13	5716.63	33.78	ND		5682.85			
MW-1	12/12/13	5716.63	33.80	ND		5682.83			
MW-1	04/02/14	5716.63	33.85	ND		5682.78			
MW-1	10/23/14	5716.63	34.04	ND		5682.59			
MW-1	05/30/15	5716.63	34.19	ND		5682.44			
MW-1	11/20/15	5716.63	34.33	ND		5682.30			
MW-1	04/19/16	5716.63	34.52	ND		5682.11			
MW-1	10/16/16	5716.63	34.17	ND		5682.46			
MW-1	06/08/17	5716.63	34.71	ND		5681.92			
MW-1	11/11/17	5716.63	34.27	ND		5682.36			

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Sandoval GC A #1A								
Location	Date	тос	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)		
MW-2	11/20/15	5717.56	35.29	ND		5682.27		
MW-2	04/19/16	5717.56	35.49	ND		5682.07		
MW-2	10/16/16	5717.56	36.03	35.60	0.43	5681.85		
MW-2	06/08/17	5717.56	36.25	35.50	0.75	5681.87		
MW-2	11/11/17	5717.56	35.19	ND		5682.37		
NAVA C	44/00/45	F740 70	07.10	NE		5004 57		
MW-3	11/20/15	5718.73	37.16	ND		5681.57		
MW-3	04/19/16	5718.73	42.25	ND		5676.48		
MW-3	10/16/16	5718.73	44.19	ND		5674.54		
MW-3	06/08/17	5718.73	44.87	ND		5673.86		
MW-3	11/11/17	5718.73	43.82	ND		5674.91		
MW-4	11/20/15	5718.15	Dry	ND		Dry		
MW-4	11/23/15	5718.15	44.93	ND		5673.22		
MW-4	04/19/16	5718.15	44.84	ND		5673.31		
MW-4	10/16/16	5718.15	45.02	ND		5673.13		
MW-4	06/08/17	5718.15	45.18	ND		5672.97		
MW-4	11/11/17	5718.15	45.18	ND		5672.97		
MW-5	11/20/15	5714.35	Dry	ND		Dry		
MW-5	11/23/15	5714.35	41.16	ND		5673.19		
MW-5	04/19/16	5715.35	41.15	ND		5674.20		
MW-5	10/16/16	5715.35	42.25	ND		5673.10		
MW-5	06/08/17	5715.35	41.38	ND		5673.97		
MW-5	11/11/17	5715.35	41.36	ND		5673.99		

Notes:

[&]quot;ft" = feet

[&]quot;TOC" = Top of casing

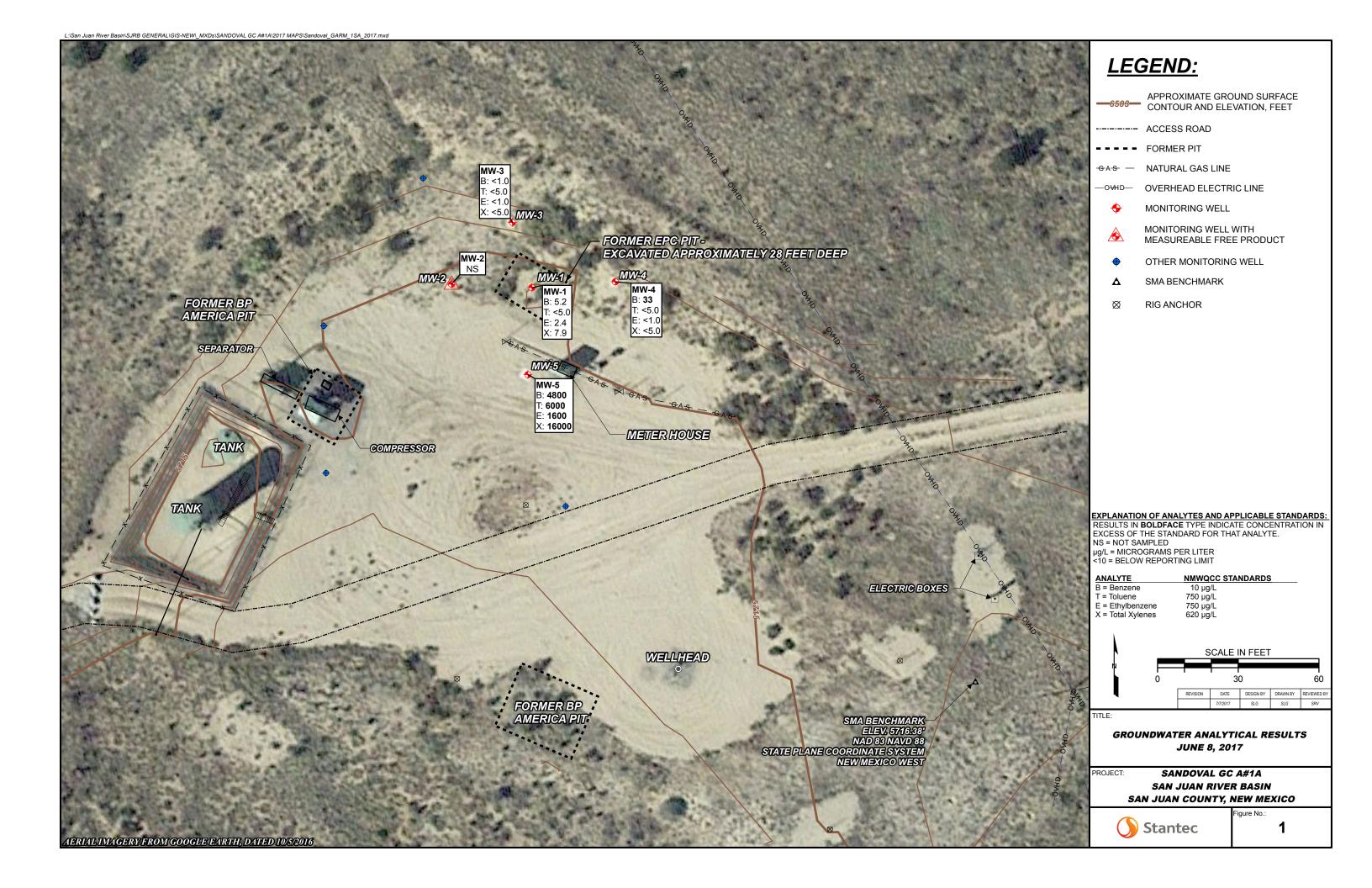
[&]quot;LNAPL" = Light non-aqueous phase liquid

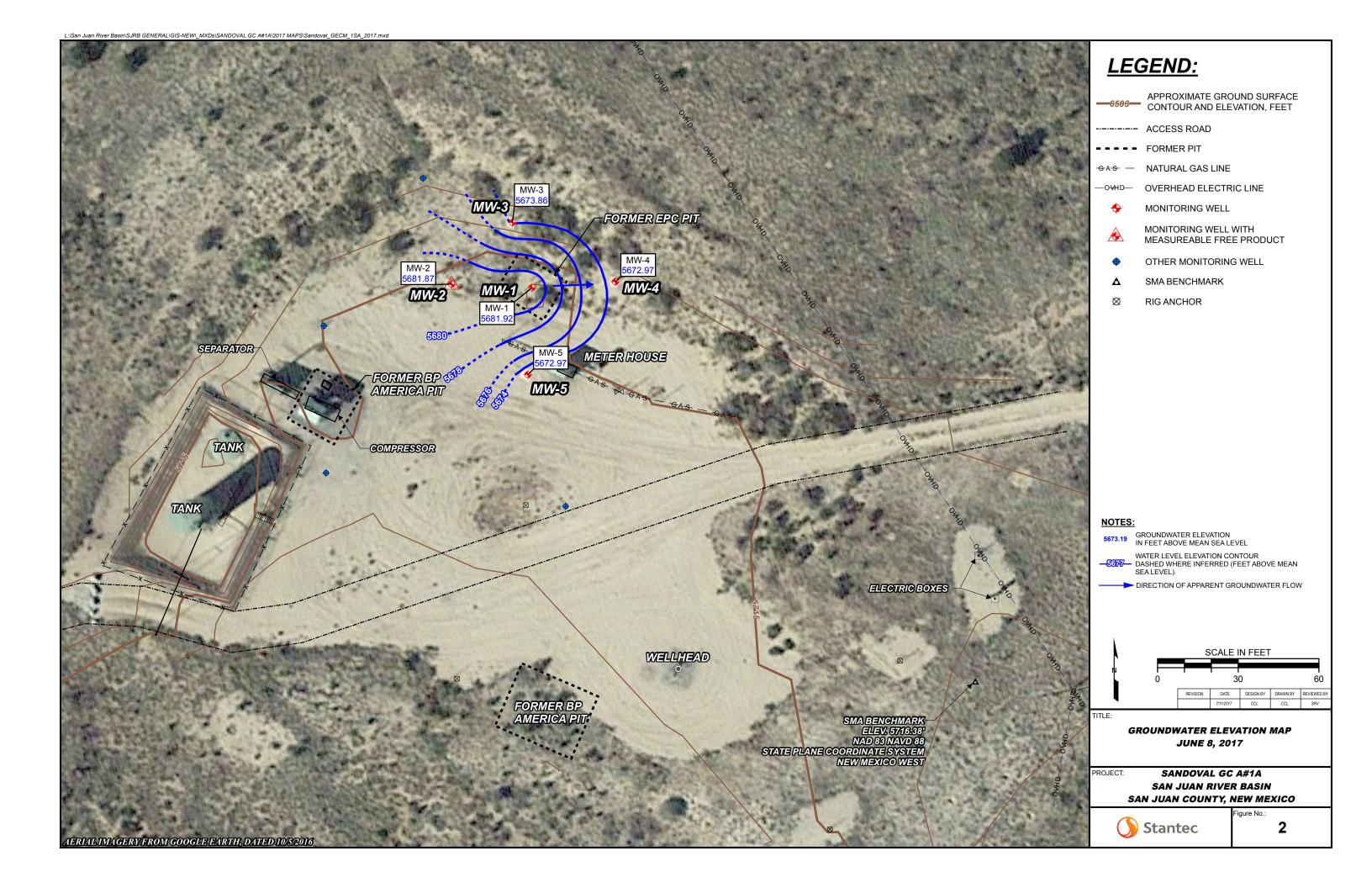
[&]quot;ND" = LNAPL not detected

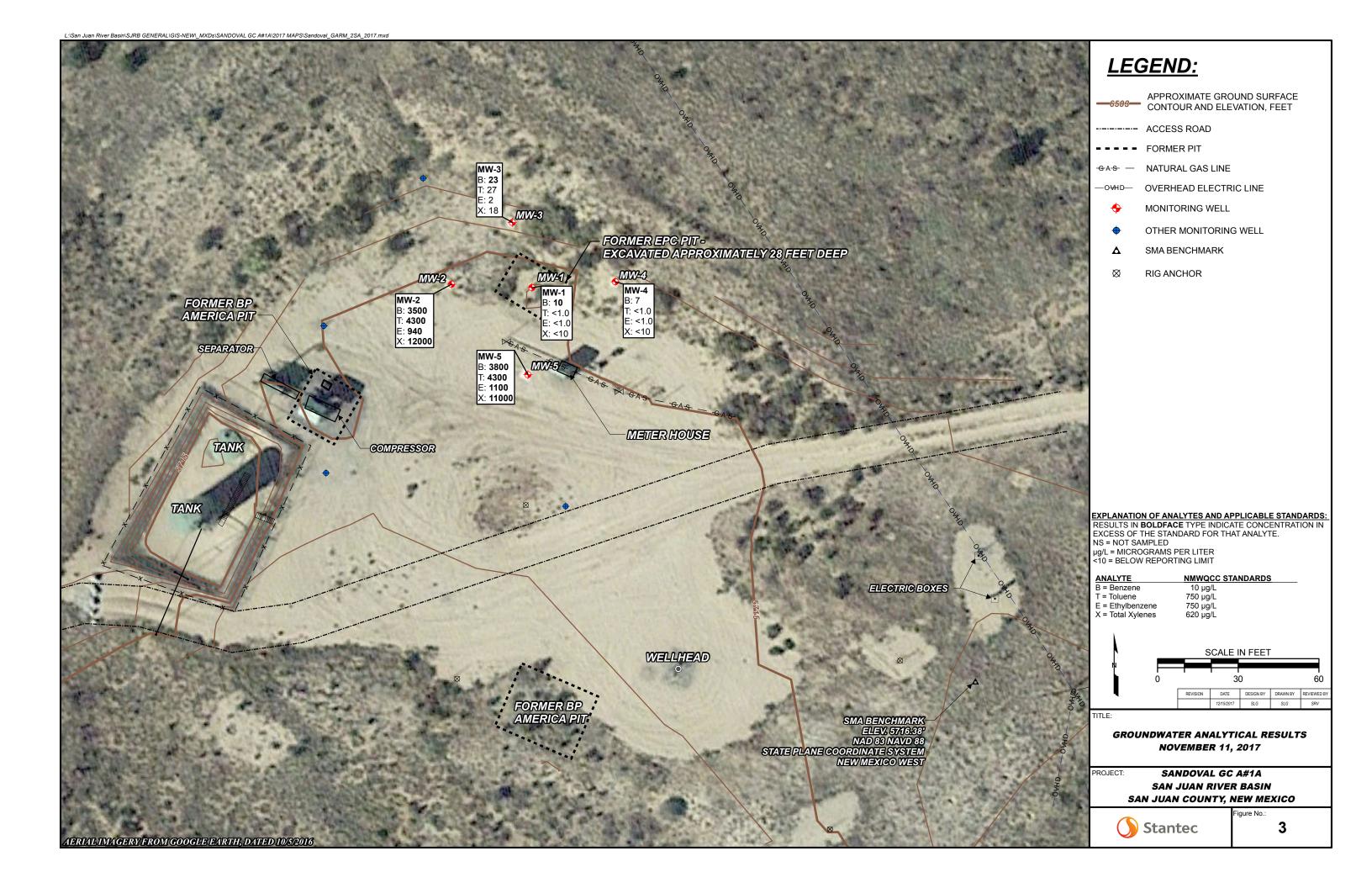
[&]quot;NR" = LNAPL not recorded

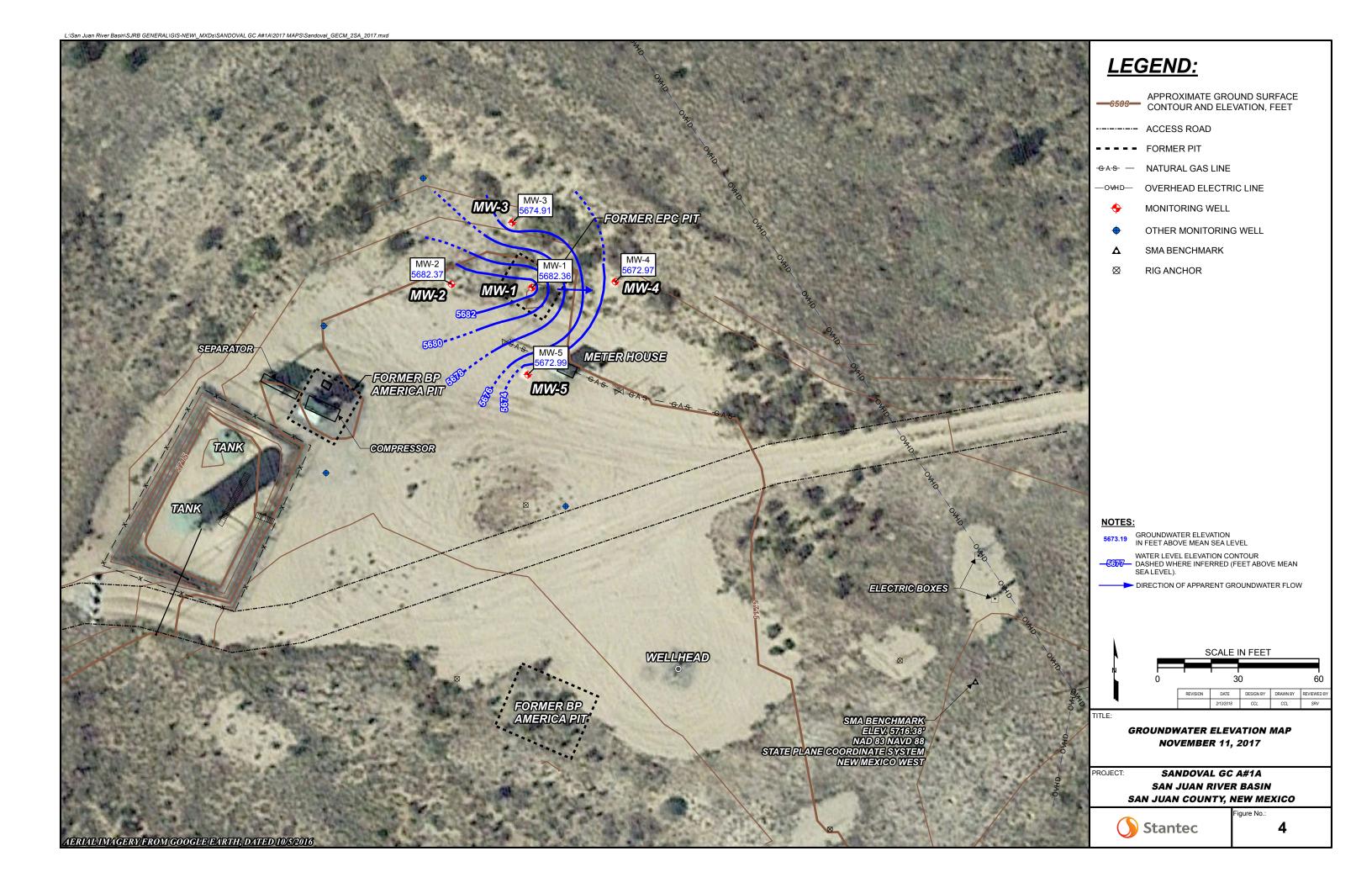
FIGURES

- FIGURE 1: JUNE 8, 2017 GROUNDWATER ANALYTICAL RESULTS MAP
- FIGURE 2: JUNE 8, 2017 GROUNDWATER ELEVATION MAP
- FIGURE 3: NOVEMBER 11, 2017 GROUNDWATER ANALYTICAL RESULTS MAP
- FIGURE 4: NOVEMBER 11, 2017 GROUNDWATER ELEVATION MAP



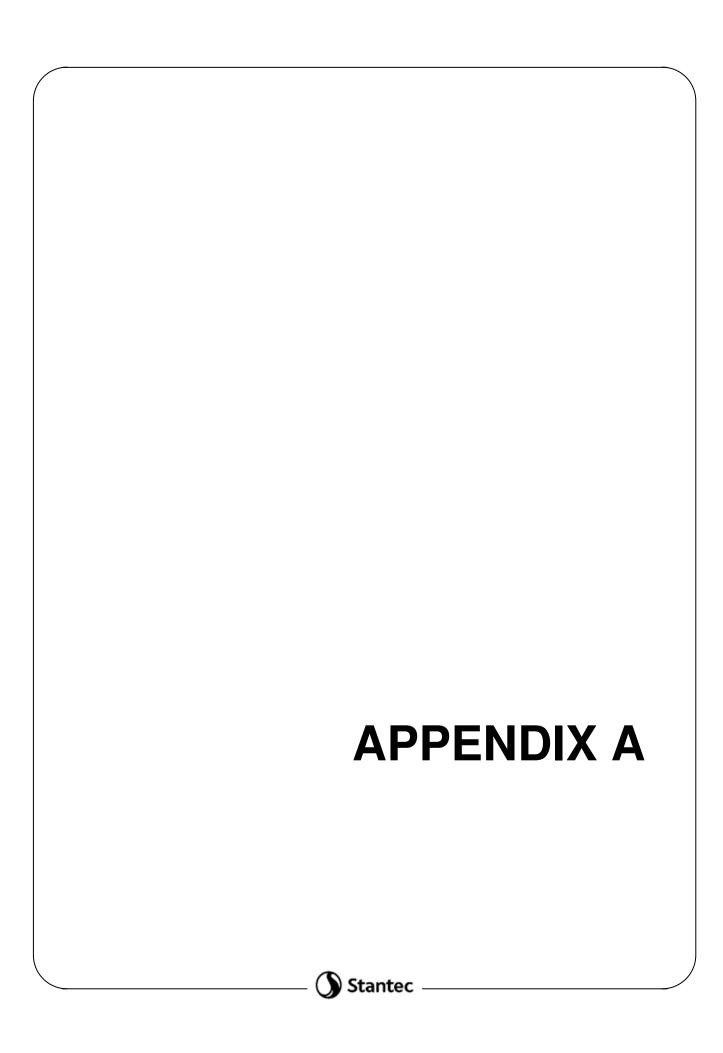






APPENDICES

- APPENDIX A NOTIFICATIONS OF GROUNDWATER SAMPLING ACTIVITIES
- APPENDIX B WASTE DISPOSAL DOCUMENTATION
- APPENDIX C JUNE 8, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT NOVEMBER 11, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT



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

To: Randolph.Bayliss@state.nm.us

Cc: <u>brandon.powell@state.nm.us</u>; <u>Wiley, Joe</u>

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



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

To: <u>Bayliss, Randolph, EMNRD</u>

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.

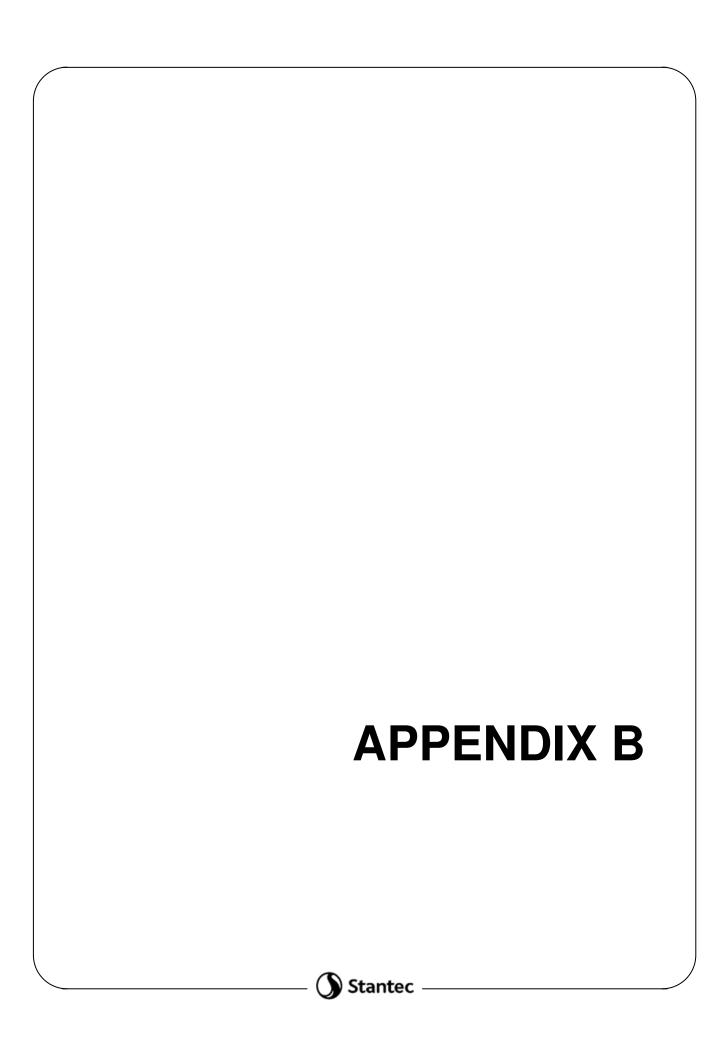
Thank you, Steve

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

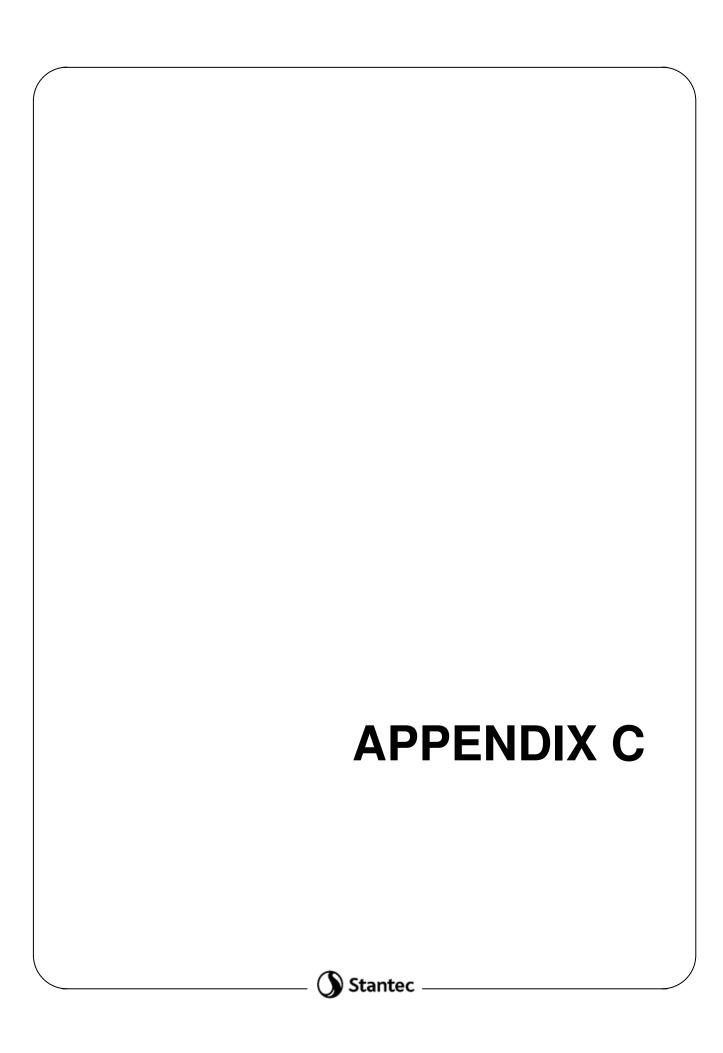
Cell: (515) 710-7523 Office: (515) 253-0830 steve.varsa@stantec.com





BAS DIS DATE GENERATO HAULING O	POS DR: Floor	AL/11/17 005-632 OPEN 2 Paso CGP N. Star 5+an+el	al Health and Si ntana, Bloomfie 2-8936 or 505-3 24 Hours per Da	eld, NM 87413 334–3013	Oil Fie INVO	CD PERMIT: NM Id Waste Docum DICE: TKT#. TO:	nent, Form C	138	
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	NM 🗆	CO 🗆 AZ 🗆 UT	TREATMEN	NT/DISPOSAL I	METHODS:		TION MIN	JECTION MTRE	EATING PLANT
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I, representitive 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.									
Approv	ed	☐ Denied	ATTENDANT SIGNATU	JRE		-			
								san juan rep	production 168-6



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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: 400-139109-1

Client Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

For:

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

Attn: Ms. Sarah Gardner

Debia AVersu

Authorized for release by: 6/20/2017 4:57:11 PM

Debra Vergin, Project Manager II (850)363-5129

debra.vergin@testamericainc.com

Designee for

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

carol.webb@testamericainc.com

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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 -Sandoval GC A#1

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

TestAmerica Job ID: 400-139109-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

RER

RPD

TEF

TEQ

RL

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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

TestAmerica Pensacola

Case Narrative

Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

Job ID: 400-139109-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-139109-1

Comments

No additional comments.

Receipt

The samples were received on 6/10/2017 12:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-1 (400-139109-1). Evidence of matrix interference is present.

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

VOA Prep

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

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Client: Stantec Consulting Services Inc

Client Sample ID: MW-1

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

Lab Sample ID: 400-139109-1

Analyte	Result Qualifi	ier RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.2	1.0	ug/L	1		8021B	Total/NA
Ethylbenzene	2.4	1.0	ug/L	1		8021B	Total/NA
Xylenes, Total	7.9	5.0	ug/L	1		8021B	Total/NA

Client Sample ID: MW-3 Lab Sample ID: 400-139109-2

No Detections.

Client Sample ID: MW-4 Lab Sample ID: 400-139109-3

Analyte	Result Qualifier	RL	Unit	Dil Fac	Method	Prep Type
Benzene	33	1.0	ug/L		8021B	Total/NA

Client Sample ID: MW-5 Lab Sample ID: 400-139109-4

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Benzene	4800	100	ug/L	100	8021B	Total/NA
Ethylbenzene	1600	100	ug/L	100	8021B	Total/NA
Toluene	6000	500	ug/L	100	8021B	Total/NA
Xylenes, Total	16000	500	ug/L	100	8021B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-139109-5

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 -Sandoval GC A#1 TestAmerica Job ID: 400-139109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139109-1	MW-1	Water	06/08/17 10:45	06/10/17 12:00
400-139109-2	MW-3	Water	06/08/17 10:40	06/10/17 12:00
400-139109-3	MW-4	Water	06/08/17 10:50	06/10/17 12:00
400-139109-4	MW-5	Water	06/08/17 11:00	06/10/17 12:00
400-139109-5	TRIP BLANK	Water	06/08/17 10:30	06/10/17 12:00

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Client: Stantec Consulting Services Inc

Client Sample ID: MW-1

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

Lab Sample ID: 400-139109-1

Matrix: Water

Date Collected: 06/08/17 10:45
Date Received: 06/10/17 12:00

alrix. Wale

Method: 8021B - Volatile Org	anic Compounds	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.2		1.0	ug/L			06/14/17 06:34	1
Ethylbenzene	2.4		1.0	ug/L			06/14/17 06:34	1
Toluene	<5.0		5.0	ug/L			06/14/17 06:34	1
Xylenes, Total	7.9		5.0	ug/L			06/14/17 06:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a a a-Trifluorotoluene (nid)		X	78 124		-		06/14/17 06:34	

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Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

Client Sample ID: MW-3 Lab Sample ID: 400-139109-2 Date Collected: 06/08/17 10:40

Matrix: Water

Date Received: 06/10/17 12:00

Method: 8021B - Volatile Org	anic Compounds (GC)						
Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			06/14/17 07:09	1
Ethylbenzene	<1.0	1.0	ug/L			06/14/17 07:09	1
Toluene	<5.0	5.0	ug/L			06/14/17 07:09	1
Xylenes, Total	<5.0	5.0	ug/L			06/14/17 07:09	1
Surrogate	%Recovery Qualifier	r Limits			Prepared	Analyzed	Dil Fac
a.a.a-Trifluorotoluene (pid)	94	78 - 124		-		06/14/17 07:09	1

Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

Lab Sample ID: 400-139109-3

TestAmerica Job ID: 400-139109-1

Matrix: Water

Date Collected: 06/08/17 10:50 Date Received: 06/10/17 12:00

Client Sample ID: MW-4

Method: 8021B - Volatile Org	janic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	33		1.0	ug/L			06/14/17 07:44	1
Ethylbenzene	<1.0		1.0	ug/L			06/14/17 07:44	1
Toluene	<5.0		5.0	ug/L			06/14/17 07:44	1
Xylenes, Total	<5.0		5.0	ug/L			06/14/17 07:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	97		78 - 124		-		06/14/17 07:44	1

Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

Lab Sample ID: 400-139109-4

Matrix: Water

Date Collected: 06/08/17 11:00 Date Received: 06/10/17 12:00

Client Sample ID: MW-5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4800		100	ug/L			06/14/17 08:19	100
Ethylbenzene	1600		100	ug/L			06/14/17 08:19	100
Toluene	6000		500	ug/L			06/14/17 08:19	100
Xylenes, Total	16000		500	ug/L			06/14/17 08:19	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	98				-		06/14/17 08:19	100

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Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-139109-5

Date Collected: 06/08/17 10:30 Matrix: Water

Date Received: 06/10/17 12:00

Method: 8021B - Volatile Org	anic Compounds (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	1.0	ug/L			06/14/17 08:54	1
Ethylbenzene	<1.0	1.0	ug/L			06/14/17 08:54	1
Toluene	<5.0	5.0	ug/L			06/14/17 08:54	1
Xylenes, Total	<5.0	5.0	ug/L			06/14/17 08:54	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
a.a.a-Trifluorotoluene (pid)	95	78 - 124		-		06/14/17 08:54	

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QC Association Summary

Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

GC VOA

Analysis Batch: 356860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139109-1	MW-1	Total/NA	Water	8021B	
400-139109-2	MW-3	Total/NA	Water	8021B	
400-139109-3	MW-4	Total/NA	Water	8021B	
400-139109-4	MW-5	Total/NA	Water	8021B	
400-139109-5	TRIP BLANK	Total/NA	Water	8021B	
MB 400-356860/34	Method Blank	Total/NA	Water	8021B	
LCS 400-356860/1033	Lab Control Sample	Total/NA	Water	8021B	
400-139057-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
400-139057-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

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Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-356860/34

Matrix: Water

Analysis Batch: 356860

Client Sample ID: Method Blank

Prep Type: Total/NA

мв мв Result Qualifier RL Dil Fac Analyte Unit D Prepared Analyzed 1.0 Benzene <1.0 ug/L 06/14/17 10:04 06/14/17 10:04 Ethylbenzene <1.0 1.0 ug/L 06/14/17 10:04 Toluene <5.0 5.0 ug/L 5.0 06/14/17 10:04 Xylenes, Total <5.0 ug/L

MB MB

Surrogate Qualifier Limits Dil Fac %Recovery Prepared Analyzed 78 - 124 a,a,a-Trifluorotoluene (pid) 94 06/14/17 10:04

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 356860

Lab Sample ID: LCS 400-356860/1033

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	
Benzene	50.0	49.5		ug/L	99	85 - 115	
Ethylbenzene	50.0	50.6		ug/L	101	85 _ 115	
Toluene	50.0	50.7		ug/L	101	85 _ 115	
Xylenes, Total	150	150		ug/L	100	85 - 115	

LCS LCS

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

Lab Sample ID: 400-139057-A-1 MS

Matrix: Water

Analysis Batch: 356860

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

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	49.5		ug/L		99	44 - 150	
Ethylbenzene	<1.0		50.0	51.6		ug/L		103	70 - 142	
Toluene	<5.0		50.0	50.9		ug/L		102	69 - 136	
Xylenes, Total	<5.0		150	154		ug/L		103	68 - 142	

MS MS

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

Lab Sample ID: 400-139057-A-1 MSD

Matrix: Water

Analysis Batch: 356860

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<1.0		50.0	48.7		ug/L		97	44 - 150	2	16
<1.0		50.0	50.9		ug/L		102	70 - 142	1	16
<5.0		50.0	50.8		ug/L		102	69 - 136	0	16
<5.0		150	153		ug/L		102	68 - 142	1	15
	<1.0 <1.0 <1.0 <5.0	<1.0 <5.0	Result Qualifier Added <1.0	Result Qualifier Added Result <1.0	Result Qualifier Added Result Qualifier <1.0	Result Qualifier Added Result Qualifier Unit <1.0	Result Qualifier Added Result Qualifier Unit D <1.0	Result Qualifier Added Result Qualifier Unit D %Rec <1.0	Result Qualifier Added Result Qualifier Unit D %Rec Limits <1.0	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <1.0

MSD MSD

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

TestAmerica Pensacola

Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

Lab Sample ID: 400-139109-1

Matrix: Water

Date Collected: 06/08/17 10:45 Date Received: 06/10/17 12:00

Client Sample ID: MW-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356860	06/14/17 06:34	GRK	TAL PEN
	Instrument	ID: CH_JOAN								

Lab Sample ID: 400-139109-2

Lab Sample ID. 400-139109-2

Matrix: Water

Client Sample ID: MW-3
Date Collected: 06/08/17 10:40
Date Received: 06/10/17 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356860	06/14/17 07:09	GRK	TAL PEN
	Instrume	nt ID: CH JOAN								

Client Sample ID: MW-4 Lab Sample ID: 400-139109-3

Date Collected: 06/08/17 10:50 Matrix: Water

Date Received: 06/10/17 12:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Number or Analyzed Туре Run Factor Amount Analyst 356860 Total/NA 8021B 06/14/17 07:44 GRK TAL PEN Analysis 5 mL 5 mL Instrument ID: CH_JOAN

Client Sample ID: MW-5 Lab Sample ID: 400-139109-4

Date Collected: 06/08/17 11:00 Matrix: Water

Date Received: 06/10/17 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		100	5 mL	5 mL	356860	06/14/17 08:19	GRK	TAL PEN
	Instrume	nt ID: CH_JOAN								

Client Sample ID: TRIP BLANK Lab Sample ID: 400-139109-5

Date Collected: 06/08/17 10:30 Matrix: Water

Date Received: 06/10/17 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356860	06/14/17 08:54	GRK	TAL PEN
	Instrume	nt ID: CH JOAN								

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: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

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 06-30-17	
Alabama	State Program	4	40150		
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	
lowa	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	

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Method Summary

Client: Stantec Consulting Services Inc

Project/Site: ElPaso CGP Company, LLC -Sandoval GC A#1

TestAmerica Job ID: 400-139109-1

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

Protocol References:

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

Laboratory References:

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

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Chain of Custody Record

3355 McLemore Drive

TestAmerica Pensacola

State, Zip: CO, 80202 Client Information Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671 City: Denver Company: Stantec Consulting Services Inc Ms. Sarah Gardner Sample Identification Sandoval GC A#1 sarah.gardner@mwhglobal.com 303-291-2239(Tel) 1560 Broadway Suite 1800 Refinquished by: Po∮sible Haxard Identification Non-Hazard ☐Flammable Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: Relinquished by: alinquished by: Join dovay BW' mw-3 H-MW TRIP BLANK 100 M Custody Seal No. 8-2-2-A 上中工 Skin Irritant Poison B # OM TAT Requested (days): 7 dough 1 dough Due Date Requested: P522102508 June 6, 2017 June 8, 2017 June 8,7017 June8 2017 1045 40005479 Purchase Order Requested SSOW# June 8, 2011/030 Sample Date 18/2017 Gardner J. Garrey Unknown 1040 050 Date: Sample Time 000 1700 Radiological (C=comp, Sample Type G=grab) | BT=Thesis, A=A Preservation Code: 99 9 a Company Company (W=water, S=solid, O=wasto/oil, Company Matrix 3 3 3 3 Lab PM: Webb, Carol M carol.webb@testamericainc.com Field Filtered Sample (Yes or No) Time: 2 Z 7 2 Z Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Month Special Instructions/QC Requirements: 7 7 4 8021B - BTEX 8021 Cooler Temperature(s) °C and Other Remarks: Received by: Received by 400-139109 COC Analysis Requested Carrier Tracking No(s): Method of Shipment Date/Time: Total Number of containers V A - HCL A - NacH C - Zn Acetale C - Zn Acetale E - Natric Acid E - Natric Acid E - NacHSO4 F - McOH H - Ascorbic Acid I - Ice 1 - Ice COC No: 400-65870-26945.1 Page 1 of 1 reservation Codes: THE LEADER IN ENVIRONMENTAL TESTING Inpreserved Special Instructions/Note: 1200 M- Hexane N-None O- AsNaO2 P- Na2O4S Q- Na2SO3 R- Na2SO3 S- H2SO4 I- TSP Dodecahydrate U- Acetione V- MCAA W--PH-4-5 Z- other (specify) Company Company

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-139109-1

Login Number: 139109 List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

ordator: 1 droz, frina in		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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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: 400-145974-1

Client Project/Site: El Paso CGP Company - Sandoval GC A1

For:

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

Attn: Ms. Sarah Gardner

Madonna Myeis

Authorized for release by: 11/20/2017 12:17:26 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 **Total Access**

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.

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Definitions/Glossary

Client: Stantec Consulting Services Inc Project/Site: El Paso CGP Company - Sandoval GC A1

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 400-145974-1

Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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

Case Narrative

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Job ID: 400-145974-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-145974-1

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.

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Client: Stantec Consulting Services Inc

Client Sample ID: TRIP BLANK

Client Sample ID: MW-1

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

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Lab Sample ID: 400-145974-1

No Detections.

Lab Sample ID: 400-145974-2

 Analyte
 Result Benzene
 Qualifier
 RL
 Unit ug/L
 Dil Fac D Benzene
 Method Prep Type

 10
 1.0
 ug/L
 1
 8260C
 Total/NA

Client Sample ID: MW-2 Lab Sample ID: 400-145974-3

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Benzene	3500	100	ug/L	100	8260C	Total/NA
Toluene	4300	100	ug/L	100	8260C	Total/NA
Ethylbenzene	940	100	ug/L	100	8260C	Total/NA
Xylenes, Total	12000	1000	ug/L	100	8260C	Total/NA

Client Sample ID: MW-3 Lab Sample ID: 400-145974-4

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Benzene	23	1.0	ug/L		8260C	Total/NA
Toluene	27	1.0	ug/L	1	8260C	Total/NA
Ethylbenzene	2.0	1.0	ug/L	1	8260C	Total/NA
Xylenes, Total	18	10	ug/L	1	8260C	Total/NA

Client Sample ID: MW-4 Lab Sample ID: 400-145974-5

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
Benzene	7.0	1.0	ug/L	1 8260C	Total/NA

Client Sample ID: MW-5 Lab Sample ID: 400-145974-6

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
Benzene	3800	50	ug/L	50	8260C	Total/NA
Toluene	4300	50	ug/L	50	8260C	Total/NA
Ethylbenzene	1100	50	ug/L	50	8260C	Total/NA
Xvlenes Total	11000	500	ua/l	50	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID	Client Sample ID	Matrix	Collected R	eceived
400-145974-1	TRIP BLANK	Water	11/11/17 13:45 11/1	4/17 09:01
400-145974-2	MW-1	Water	11/11/17 14:01 11/1	4/17 09:01
400-145974-3	MW-2	Water	11/11/17 14:29 11/1	4/17 09:01
400-145974-4	MW-3	Water	11/11/17 13:55 11/1	4/17 09:01
400-145974-5	MW-4	Water	11/11/17 14:14 11/1	4/17 09:01
400-145974-6	MW-5	Water	11/11/17 14:23 11/1	4/17 09:01

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID: 400-145974-1

Matrix: Water

11/17/17 13:45

Client Sample ID: TRIP BLANK Date Collected: 11/11/17 13:45

Date Received: 11/14/17 09:01

Toluene-d8 (Surr)

Method: 8260C - Volatile	Organic Compou	nds by G	C/MS					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/17/17 13:45	1
Toluene	<1.0		1.0	ug/L			11/17/17 13:45	1
Ethylbenzene	<1.0		1.0	ug/L			11/17/17 13:45	1
Xylenes, Total	<10		10	ug/L			11/17/17 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		81 - 121				11/17/17 13:45	1
4-Bromofluorobenzene	112		78 - 118				11/17/17 13:45	1

80 - 120

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID: 400-145974-2

Matrix: Water

Date Collected: 11/11/17 14:01 Date Received: 11/14/17 09:01

Client Sample ID: MW-1

Method: 8260C - Volatile	Organic Compounds by G	C/MS					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10	1.0	ug/L			11/17/17 16:42	1
Toluene	<1.0	1.0	ug/L			11/17/17 16:42	1
Ethylbenzene	<1.0	1.0	ug/L			11/17/17 16:42	1
Xylenes, Total	<10	10	ug/L			11/17/17 16:42	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102	81 - 121				11/17/17 16:42	1
4-Bromofluorobenzene	115	78 - 118				11/17/17 16:42	1
Toluene-d8 (Surr)	101	80 - 120				11/17/17 16:42	1

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Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID: 400-145974-3

Matrix: Water

Date Collected: 11/11/17 14:29 Date Received: 11/14/17 09:01

Client Sample ID: MW-2

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3500		100	ug/L			11/17/17 18:54	100
Toluene	4300		100	ug/L			11/17/17 18:54	100
Ethylbenzene	940		100	ug/L			11/17/17 18:54	100
Xylenes, Total	12000		1000	ug/L			11/17/17 18:54	100
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		81 - 121		-		11/17/17 18:54	100
4-Bromofluorobenzene	111		78 - 118				11/17/17 18:54	100
Toluene-d8 (Surr)	104		80 - 120				11/17/17 18:54	100

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Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID: 400-145974-4

Matrix: Water

Date Collected: 11/11/17 13:55 Date Received: 11/14/17 09:01

Client Sample ID: MW-3

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23		1.0	ug/L			11/17/17 17:04	1
Toluene	27		1.0	ug/L			11/17/17 17:04	1
Ethylbenzene	2.0		1.0	ug/L			11/17/17 17:04	1
Xylenes, Total	18		10	ug/L			11/17/17 17:04	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		81 - 121				11/17/17 17:04	1
4-Bromofluorobenzene	115		78 - 118				11/17/17 17:04	1
Toluene-d8 (Surr)	102		80 - 120				11/17/17 17:04	1

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID: 400-145974-5

Matrix: Water

Date Collected: 11/11/17 14:14 Date Received: 11/14/17 09:01

Client Sample ID: MW-4

Method: 8260C - Volatile							
Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.0	1.0	ug/L			11/17/17 17:26	1
Toluene	<1.0	1.0	ug/L			11/17/17 17:26	1
Ethylbenzene	<1.0	1.0	ug/L			11/17/17 17:26	1
Xylenes, Total	<10	10	ug/L			11/17/17 17:26	1
Surrogate	%Recovery Qualifie	r Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105	81 - 121		•		11/17/17 17:26	1
4-Bromofluorobenzene	111	78 - 118				11/17/17 17:26	1
Toluene-d8 (Surr)	106	80 - 120				11/17/17 17:26	1

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Lab Sample ID: 400-145974-6

Matrix: Water

Date Collected: 11/11/17 14:23 Date Received: 11/14/17 09:01

Client Sample ID: MW-5

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3800		50	ug/L			11/17/17 18:32	50
Toluene	4300		50	ug/L			11/17/17 18:32	50
Ethylbenzene	1100		50	ug/L			11/17/17 18:32	50
Xylenes, Total	11000		500	ug/L			11/17/17 18:32	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		81 - 121		-		11/17/17 18:32	50
4-Bromofluorobenzene	113		78 - 118				11/17/17 18:32	50
Toluene-d8 (Surr)	102		80 - 120				11/17/17 18:32	50

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QC Association Summary

Client: Stantec Consulting Services Inc Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

GC/MS VOA

Analysis Batch: 376328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-145974-1	TRIP BLANK	Total/NA	Water	8260C	
400-145974-2	MW-1	Total/NA	Water	8260C	
400-145974-3	MW-2	Total/NA	Water	8260C	
400-145974-4	MW-3	Total/NA	Water	8260C	
400-145974-5	MW-4	Total/NA	Water	8260C	
400-145974-6	MW-5	Total/NA	Water	8260C	
MB 400-376328/4	Method Blank	Total/NA	Water	8260C	
LCS 400-376328/1002	Lab Control Sample	Total/NA	Water	8260C	
400-145968-A-5 MS	Matrix Spike	Total/NA	Water	8260C	
400-145968-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: MB 400-376328/4

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

Matrix: Water

Analysis Batch: 376328

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

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene 1.0 ug/L 11/17/17 11:32 <1.0 Toluene <1.0 1.0 ug/L 11/17/17 11:32 Ethylbenzene 1.0 ug/L 11/17/17 11:32 <1.0 Xylenes, Total 10 ug/L 11/17/17 11:32 <10

MB MB Surrogate Qualifier Limits Dil Fac %Recovery Prepared Analyzed Dibromofluoromethane 81 - 121 11/17/17 11:32 101 4-Bromofluorobenzene 78 - 118 11/17/17 11:32 114 Toluene-d8 (Surr) 104 80 - 120 11/17/17 11:32

Lab Sample ID: LCS 400-376328/1002

Matrix: Water

Analysis Batch: 376328

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit D %Rec Limits 50.0 Benzene 48.1 ug/L 96 70 - 130 Toluene 50.0 51.7 ug/L 103 70 - 130 50.0 54.1 108 70 - 130 Ethylbenzene ug/L Xylenes, Total 100 109 ug/L 109 70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate Dibromofluoromethane 105 81 - 121 4-Bromofluorobenzene 112 78 - 118 Toluene-d8 (Surr) 104 80 - 120

Lab Sample ID: 400-145968-A-5 MS

Client Sample ID: Matrix Spike Matrix: Water Prep Type: Total/NA **Analysis Batch: 376328**

	Sample	Sample	Бріке	INIO	IVIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<1.0		50.0	46.6		ug/L		92	56 - 142	
Toluene	<1.0		50.0	46.2		ug/L		92	65 - 130	
Ethylbenzene	<1.0		50.0	46.5		ug/L		93	58 - 131	
Xylenes, Total	<10		100	95.0		ug/L		95	59 - 130	
Benzene Toluene Ethylbenzene	<1.0 <1.0 <1.0		50.0 50.0 50.0	46.6 46.2 46.5	Quanner	ug/L ug/L ug/L	<u>_</u>	92 92 93	56 - 142 65 - 130 58 - 131	

	MS MS	
Surrogate	%Recovery Qualifier	Limits
Dibromofluoromethane	104	81 - 121
4-Bromofluorobenzene	114	78 - 118
Toluene-d8 (Surr)	105	80 - 120

Lab Sample ID: 400-145968-A-5 MSD

Matrix: Water

Analysis Batch: 376328

Alialysis Datell. 37 0320												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<1.0		50.0	45.5		ug/L		90	56 - 142	2	30	
Toluene	<1.0		50.0	46.2		ug/L		92	65 - 130	0	30	

TestAmerica Pensacola

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

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

TestAmerica Job ID: 400-145974-1

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

Lab Sample ID: 400-145968-A-5 MSD **Matrix: Water**

Analysis Batch: 376328

-	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	%Rec	Limits	RPD	Limit
Ethylbenzene	<1.0		50.0	48.6		ug/L	 97	58 - 131	4	30
Xylenes, Total	<10		100	97.2		ug/L	97	59 - 130	2	30

	MSD MSD	
Surrogate	%Recovery Qualif	ier Limits
Dibromofluoromethane	103	81 - 121
4-Bromofluorobenzene	117	78 - 118
Toluene-d8 (Surr)	105	80 - 120

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

Client Sample ID: TRIP BLANK Lab Sample ID: 400-145974-1

Date Collected: 11/11/17 13:45 Matrix: Water

Date Received: 11/14/17 09:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	376328	11/17/17 13:45	CAR	TAL PEN
	Instrument	ID: Darwin								

Client Sample ID: MW-1 Lab Sample ID: 400-145974-2

Date Collected: 11/11/17 14:01 **Matrix: Water**

Date Received: 11/14/17 09:01

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Factor	Initial Amount 5 mL	Final Amount 5 mL	Batch Number 376328	Prepared or Analyzed 11/17/17 16:42	Analyst CAR	Lab TAL PEN
	Instrument	ID. Darwin								

Client Sample ID: MW-2 Lab Sample ID: 400-145974-3 **Matrix: Water**

Date Collected: 11/11/17 14:29

Date Received: 11/14/17 09:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	5 mL	5 mL	376328	11/17/17 18:54	CAR	TAL PEN
	Instrumen	t ID: Darwin								

Lab Sample ID: 400-145974-4 Client Sample ID: MW-3

Date Collected: 11/11/17 13:55

Date Received: 11/14/17 09:01

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260C	Run	Dil Factor	Initial Amount 5 mL	Final Amount 5 mL	Batch Number 376328	Prepared or Analyzed 11/17/17 17:04	Analyst CAR	Lab TAL PEN
	Instrument	ID: Darwin								

Client Sample ID: MW-4 Lab Sample ID: 400-145974-5

Date Collected: 11/11/17 14:14

Date Received: 11/14/17 09:01

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	376328	11/17/17 17:26	CAR	TAL PEN
	Instrumen	t ID: Darwin								

Lab Sample ID: 400-145974-6 Client Sample ID: MW-5

Date Collected: 11/11/17 14:23

Date Received: 11/14/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	8260C ID: Darwin		50	5 mL	5 mL	376328	11/17/17 18:32	CAR	TAL PEN

Matrix: Water

Matrix: Water

Matrix: Water

Lab Chronicle

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

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
lowa	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

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Method Summary

Client: Stantec Consulting Services Inc

Project/Site: El Paso CGP Company - Sandoval GC A1

TestAmerica Job ID: 400-145974-1

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

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

			I ah DM	000 12021	Carrier Tracking Mo/e).		COC No.	
lient Information	SMS SMS		Webb, Carol M	00-1459/4 COC	Callel Hacking No.		400-69066-28000.1	
lient Contact: Ns. Sarah Gardner	Phone: 515-306-	1353	E-Mail: carol.webb@	E-Mail: carol.webb@testamericainc.com		<u>a</u> <u>a</u>	Page: Page 1 of 1	
ompany: stantec Consulting Services Inc				Analysis Requested	uested	or	Job# 103720	141
ddress: 560 Broadway Suite 1800	Due Date Requested:					2	73	
ity. Denver	ga	-				< m U		- None - AsNaO2
SO, 80202	10 00	Sto					D - Nitric Acid P E - NaHSO4 Q	P - Na2O4S Q - Na2SO3
hone: 303-291-2239(ТеI)	PO#: Purchase Order Requested	ס				.01		- Nazszos - H2SO4 - TSP Dodecahydrate
mail: sarah.gardner@mwhglobal.com	WO#: AKT W-FRG-STN-05-17-17	-576	-12			-7		- Acetone - MCAA
শত্যুক্ব Name: Sandoval GC A#1 Nov 2017	Project #: 5	161 GC	# 4				K-EDIA W	w - pH 4-5 Z - other (specify)
šite:	SSOW#:		1	021		0	Other:	
Sample Identification	Sample Date Time	Sample Type (C=comp,	Matrix (Winester, Secold, Orwester)	8 X318 - 8158 8			tari laizaro	Special Instructions Note:
							6	
Trip Denk	W/11/11 1345	9	3	6			Tor FL	
Miss-1	1040		A	6				
IMW-D	1439		A	7				
MW-3	1365		A	K				
mm-4	1 1414		A	R				
S-MW	2641 1/11/11		A	3			_	
						*.£		
Non-Hazard Gentification Non-Hazard Flammable Skin Irritant	Poison B Unknown	Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Mont	assessed if sar Disposal By Lab	nples are retained	longer then 1 m For	onth) Months
			dS	Special Instructions/QC Requirements:	ents:			
Empty Kit Relinquished by:	Date:		Time:		Method of Shipment:	Shipment:		
Reinquished by A	Dete/Time:	(100	Strate c	Received by:		DeterTime: 4//	1000 0	My theodos
Relinquished by:	Dete/Time:		Company	Received by:		Date/Time: /		Company
Reinquished by:	Date/Time:	U	Company	Received by:		Date/Time:		Company
Custody Seals Intact: Custody Seal No.:				Cooler Temperature(s) *C and Other Remarks:	Remarks:	0.00	- M	0
A1. 7 00. 7	The state of the s							71007000

Client: Stantec Consulting Services Inc

Job Number: 400-145974-1

Login Number: 145974 List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

Creator: Perez, Trina W		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survemeter.</td <td>ey N/A</td> <td></td>	ey 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	C. True	
Samples are received within Holding Time (excluding tests with immediate HTs)	e True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	