

**2020 ANNUAL GROUNDWATER REPORT**

**Gallegos Canyon Unit #142E**  
**Incident Number: nAUTO-06AB000219**  
**NMOCD Case#: 3R**  
**Meter Code: 063906**  
**T29N, R12W Sec 25, Unit G**

**REVIEWED***By Mike Buchanan at 1:58 pm, Jan 30, 2024***SITE DETAILS****Site Location:** Latitude: 36.699300 N, Longitude: -108.046700 W**Land Type:** Private/Fee**Operator:** Simcoe LLC**SITE BACKGROUND**

Environmental Remediation activities at the Gallegos Canyon Unit #142 (Site) are being managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered During Pit Closure" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, a portion of remediation Plan was conditionally approved by the New Mexico Oil Conservation Department (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions into El Paso CGP Company, LLC's (EPCGP's) program methods. The submitted following operation of the Site from BP America Production Company (BP), on February 2, 2019 of the NMAC.

The Site is located on private land (T29N, R12W, Sec 25, Unit G). An initial site assessment was completed in April 1994, and an excavation to a depth of approximately 9 feet below ground surface (bgs) was completed in April 1994, removing approximately 20 cubic yards (cy) of soil. In October 1998 another excavation was completed, removing 882 cy of soil. Various site investigations have occurred since 1997. Temporary piezometers PZ-1 through PZ-6 were installed and removed in 1997. Monitoring wells were installed in 1997 (MW-1), 2001 (MW-2), and 2014 (MW-3 and MW-5 through MW-8). Monitoring well MW-4 was advanced as a soil boring but was not installed. The location of the site is presented on Figure 1. A Site Plan map depicting the locations of monitoring wells, piezometers, soil borings, and current and historical site features is provided as Figure 2.

Free product has been observed and historically recovered at the Site. In January 1996, BP discovered a release from a discharge pit located in the vicinity of MW-2. EPCGP prepared a site conceptual model (SCM) providing a summary of the assessment and remedial activities completed by EPCGP for their release and known information regarding the BP release. Based on the available information, no further action was recommended, and the SCM and no further action request was submitted to the NMOCD on February 11, 2019 (Attachment A). To date, no response from the NMOCD has been received regarding this request. In the interim, groundwater sampling continues to be conducted on a semi-annual basis.

**GROUNDWATER SAMPLING ACTIVITIES**

Pursuant to the 1995 remediation plan Stantec provided access notifications via email to NMOCD on May 5, 2019, and November 5, 2019. Copies of the access notifications are provided as Appendix B. On May 15 and November 11, 2020, water levels were gauged at MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-8. No free product was detected in site monitoring wells during water level gauging in 2020. Groundwater samples were collected from each well using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the screened

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interval 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 Eurofins-TestAmerica, in Pensacola, Florida. One trip blank and one blind field blank were also collected during each sampling event. Each groundwater sample, field blank, and trip blank were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8260. The unused sample water was placed in a waste container and transported to Basin Disposal, Inc. (Basin) in Bloomfield, New Mexico for disposal. Waste disposal documentation is included as Appendix C.

### SUMMARY TABLES

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

### SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2020 groundwater sampling and gauging events.

### ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix D.

### GROUNDWATER RESULTS

- The groundwater elevations indicate the flow direction at the Site was generally to the southeast during 2020 (see Figures 3 and 5).
- The concentration of benzene detected in samples collected from MW-1, MW-2, MW-7 and MW-8 in May 2020 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [ $\mu\text{g/L}$ ]) for benzene in groundwater. The concentration of benzene detected in the sample collected from MW-2 in November 2020 exceeded the NMWQCC standard for benzene in groundwater. Detections of benzene in remaining groundwater samples collected from site wells in 2020 were below the NMWQCC standard or not detected.
- Concentrations of toluene were either below the NMWQCC standard (750  $\mu\text{g/L}$ ) or not detected in the Site monitoring wells sampled in 2020.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750  $\mu\text{g/L}$ ) or not detected in the Site monitoring wells sampled in 2020.
- The concentration of total xylenes detected in the sample collected from MW-2 exceeded the NMWQCC standard (620  $\mu\text{g/L}$ ) in May and November 2020. Total xylenes detected in samples from the other Site monitoring wells in 2020 were either below the NMWQCC standard or not detected for total xylenes.

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- A field duplicate was collected from monitoring well MW-3 during the May 2020 event and from monitoring well MW-8 during the November 2020 sampling event. Significant discrepancies were not noted between either set of primary and duplicate samples.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2020 groundwater monitoring events.

### **PLANNED FUTURE ACTIVITIES**

EPCGP respectfully requests a response from NMOCD to the February 2019 SCM and No Further Action request. No further activities beyond routine semi-annual groundwater monitoring are planned for this site because the remaining impacts detected are the result of a release by BP. Monitoring wells sampled during these groundwater monitoring events will be analyzed for BTEX constituents using EPA Method 8260.

**TABLES**

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	03/10/97	4010	7960	213	2050
MW-1	08/06/97	1040	1310	49.4	647
MW-1	11/05/97	543	719	33.9	342
MW-1	02/13/98	343	354	27.6	394
MW-1	05/06/98	429	216	13.6	176
MW-1	05/04/99	143	20.4	7.78	63.3
MW-1	05/25/00	230	4.4	6	450
MW-1	06/01/01	130	0.5	3.5	6.1
MW-1	05/14/02	34	4.9	1	3.3
MW-1	03/07/03	270	36.8	8.3	21.1
MW-1	09/17/03	150	77	1.9	12.8
MW-1	03/22/04	1.4	<0.14	<0.029	<0.082
MW-1	03/17/05	169	1.3	2.7	6.6
MW-1	06/23/05	810	1.9	0.62	8.1
MW-1	09/26/05	232	14.9	4	15.1
MW-1	12/14/05	354	10.6	5.9	25.6
MW-1	01/09/06	NS	NS	NS	NS
MW-1	01/18/06	NS	NS	NS	NS
MW-1	03/28/06	362	0.37J	15	15.7
MW-1	06/14/06	210	6.5	2.3	6.1
MW-1	06/28/07	109	12.6	1.1	5.5
MW-1	06/23/08	2320	305	140	934
MW-1	06/02/09	35.3	<1	0.75J	1.4J
MW-1	12/30/09	597	10.7J	26.5	159
MW-1	01/25/10	NS	NS	NS	NS
MW-1	05/25/10	NS	NS	NS	NS
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/09/10	8610	2770	348	2810
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/03/11	NS	NS	NS	NS
MW-1	09/27/11	NS	NS	NS	NS
MW-1	11/16/11	229	36.2	5.3	39.3
MW-1	02/16/12	NS	NS	NS	NS
MW-1	05/07/12	NS	NS	NS	NS
MW-1	06/07/13	810	<0.30	<0.20	4.3J
MW-1	09/11/13	25	<0.30	<0.20	0.39J
MW-1	12/13/13	330	<0.90	6.9	20
MW-1	04/03/14	560	<3.8	<2.0	<6.5
MW-1	10/25/14	57	<0.70	1.9	3J
MW-1	05/30/15	270	<5.0	1.6	32
MW-1	11/18/15	990	1.6	26	250

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	04/18/16	22	<5.0	<1.0	<5.0
MW-1	10/14/16	520	<10	<2.0	<10
MW-1	06/11/17	190	<10	<2.0	<10
MW-1	11/13/17	45	<1.0	<1.0	<10
MW-1	05/17/18	8.6	<1.0	<1.0	<10
DP-01(MW-1)*	05/17/18	8.4	<1.0	<1.0	<10
MW-1	10/28/18	1.5	<1.0	<1.0	<10
MW-1	05/22/19	85	<1.0	1	<10
MW-1	11/11/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-1)*	11/11/19	<1.0	<1.0	<1.0	<10
MW-1	05/15/20	14	<1.0	<1.0	<10
MW-1	11/11/20	<1.0	<1.0	<1.0	<10
MW-2	12/13/01	22000	25000	500	4300
MW-2	05/14/02	NS	NS	NS	NS
MW-2	09/17/03	6890	4760	219	1770
MW-2	03/22/04	13000	8880	321	2850
MW-2	03/17/05	2800	1640	125	978
MW-2	09/14/05	1980	915	63.8	391
MW-2	01/09/06	NS	NS	NS	NS
MW-2	01/18/06	NS	NS	NS	NS
MW-2	06/14/06	2140	811	83.5	610
MW-2	06/28/07	2100	492	140	1050
MW-2	06/23/08	221	1.5J	3.9	5.8
MW-2	06/02/09	NS	NS	NS	NS
MW-2	12/30/09	6660	6750	764	6210
MW-2	01/25/10	NS	NS	NS	NS
MW-2	05/25/10	NS	NS	NS	NS
MW-2	09/24/10	NS	NS	NS	NS
MW-2	11/09/10	3900	2450	342	2660
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/03/11	NS	NS	NS	NS
MW-2	09/27/11	NS	NS	NS	NS
MW-2	11/16/11	2040	1020	231	1520
MW-2	02/16/12	NS	NS	NS	NS
MW-2	05/07/12	NS	NS	NS	NS
MW-2	06/07/13	6000	1100	500	3800
MW-2	09/11/13	2200	470	240	1900
MW-2	12/13/13	5500	830	510	3700
MW-2	04/03/14	NS	NS	NS	NS
MW-2	10/25/14	NS	NS	NS	NS
MW-2	05/30/15	3300	140	570	3400

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	11/18/15	4000	120	520	1500
MW-2	04/18/16	NS	NS	NS	NS
MW-2	10/14/16	NS	NS	NS	NS
MW-2	06/11/17	NS	NS	NS	NS
MW-2	11/13/17	2100	77	220	1800
MW-2	05/17/18	NS	NS	NS	NS
MW-2	10/28/18	NS	NS	NS	NS
MW-2	05/22/19	1500	<25	840	6200
MW-2	11/11/19	1000	<10	390	2800
MW-2	05/15/20	1100	<25	450	3000
MW-2	11/11/20	1100	<10	550	3800
MW-3	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/18/16	NS	NS	NS	NS
MW-3	10/14/16	NS	NS	NS	NS
MW-3	06/11/17	NS	NS	NS	NS
MW-3	11/13/17	69	7.8	6.8	160
MW-3	05/17/18	11	6.4	18	200
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
MW-3	05/22/19	2.3	<1.0	1.3	18
MW-3	11/11/19	<1.0	<1.0	<1.0	<10
MW-3	05/15/20	5.0	<1.0	<1.0	<10
DUP-1(MW-3)*	05/15/20	5.2	<1.0	<1.0	<10
MW-3	11/11/20	<1.0	<1.0	<1.0	<10
MW-5	10/25/14	1.8	<0.70	0.89J	11
MW-5	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-5	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-5	04/18/16	22	<5.0	<1.0	5.9
MW-5	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-5	06/11/17	13	<5.0	1.9	15
MW-5	11/13/17	<1.0	<1.0	<1.0	<10
MW-5	05/17/18	<1.0	<1.0	<1.0	<10
MW-5	10/28/18	<1.0	<1.0	<1.0	<10
DUP-1(MW-5)*	10/28/18	<1.0	<1.0	<1.0	<10
MW-5	05/22/19	<1.0	<1.0	<1.0	<10
MW-5	11/11/19	<1.0	<1.0	<1.0	<10
MW-5	05/15/20	<1.0	<1.0	<1.0	<10
MW-5	11/11/20	<1.0	<1.0	<1.0	<10
MW-6	10/25/14	1.1	<0.70	<0.50	<1.6

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-6	05/30/15	190	<25	<5.0	110
MW-6	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/18/16	47	<5.0	20	6.4
MW-6	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-6	06/11/17	2.2	<5.0	<1.0	<5.0
MW-6	11/13/17	<1.0	<1.0	<1.0	<10
MW-6	05/17/18	<1.0	<1.0	<1.0	<10
MW-6	10/28/18	<1.0	<1.0	<1.0	<10
MW-6	05/22/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-6)*	05/22/19	<1.0	<1.0	<1.0	<10
MW-6	11/11/19	<1.0	<1.0	<1.0	<10
MW-6	05/15/20	<1.0	<1.0	<1.0	<10
MW-6	11/11/20	<1.0	<1.0	<1.0	<10
MW-7	10/25/14	4.7	0.7J	1.7	5.7J
MW-7	05/30/15	6.5	<5.0	<1.0	1.8J
MW-7	11/18/15	4.3	<1.0	<1.0	<3.0
MW-7	04/18/16	480	350	31	200
MW-7	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-7	06/11/17	120	11	1.9	18
MW-7	11/13/17	7.4	<1.0	<1.0	<10
MW-7	05/17/18	15	<1.0	<1.0	<10
MW-7	10/28/18	<1.0	<1.0	<1.0	<10
MW-7	05/22/19	<1.0	<1.0	<1.0	<10
MW-7	11/11/19	<1.0	<1.0	<1.0	<10
MW-7	05/15/20	38	<1.0	1.9	<10
MW-7	11/11/20	<1.0	<1.0	<1.0	<10
TMW-1	01/06/06	NS	NS	NS	NS
TMW-1	01/09/06	NS	NS	NS	NS
TMW-1	01/18/06	NS	NS	NS	NS
TMW-1	06/23/08	NS	NS	NS	NS
TMW-1	12/30/09	3660	1550	520	4110
TMW-1	01/25/10	NS	NS	NS	NS
TMW-1	05/25/10	NS	NS	NS	NS
TMW-1	09/24/10	NS	NS	NS	NS
TMW-1	11/09/10	8880	14400	956	9040
TMW-1	02/01/11	NS	NS	NS	NS
TMW-1	05/03/11	NS	NS	NS	NS
TMW-1	09/27/11	NS	NS	NS	NS
TMW-1	11/16/11	3890	6250	420	3610
TMW-1	02/16/12	NS	NS	NS	NS



**TABLE 1 - GROUNDWATER ANALYTICAL RESULTS**

<b>Gallegos Canyon Unit #142E</b>					
<b>Location</b>	<b>Date</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>
NMWQCC Standards:		10	750	750	620
TMW-1	05/07/12	NS	NS	NS	NS
TMW-1	06/07/13	5100	1100	190	2600
TMW-1	09/11/13	6600	960	190	2600
TMW-1	12/13/13	6500	2200	410	4000
TMW-1	04/03/14	NS	NS	NS	NS
TMW-1 abandoned on September 8, 2014, and replaced with MW-8					
MW-8	10/25/14	0.77J	<0.70	<0.50	<1.6
MW-8	05/30/15	36	<5.0	3.1	19
MW-8	11/18/15	6.6	<1.0	<1.0	<3.0
MW-8	04/18/16	3	<5.0	<1.0	<5.0
MW-8	10/14/16	4.8	<5.0	<1.0	<5.0
MW-8	06/11/17	NS	NS	NS	NS
MW-8	11/13/17	1900	65	190	1600
MW-8	05/17/18	96	3.4	5.2	74
MW-8	10/28/18	<1.0	<1.0	<1.0	<10
MW-8	05/22/19	1200	<10	120	700
MW-8	11/11/19	1.6	<1.0	<1.0	<10
MW-8	05/15/20	660	<5.0	31	<50
MW-8	11/11/20	<1.0	<1.0	<1.0	<10
DUP-1(MW-8)*	11/11/20	2.4	<1.0	<1.0	<10

**Notes:**

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

µg/L = micrograms per liter

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

"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result is an approximate value.

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

\*Field Duplicate results presented immediately below primary sample result

**TABLE 2 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #142E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-1	03/10/97	5481.83	NR	16.78		5465.05
MW-1	08/06/97	5481.83	NR	14.46		5467.37
MW-1	11/05/97	5481.83	NR	15.02		5466.81
MW-1	02/13/98	5481.83	NR	18.18		5463.65
MW-1	05/06/98	5481.83	NR	18.69		5463.14
MW-1	05/04/99	5481.83	NR	17.61		5464.22
MW-1	05/25/00	5481.83	NR	16.44		5465.39
MW-1	06/01/01	5481.83	NR	17.08		5464.75
MW-1	05/14/02	5481.83	NR	14.70		5467.13
MW-1	03/07/03	5481.83	ND	15.32		5466.52
MW-1	09/17/03	5481.83	ND	DRY		5460.12
MW-1	03/22/04	5481.83	ND	17.38		5464.45
MW-1	03/17/05	5481.83	ND	18.15		5463.69
MW-1	06/23/05	5481.83	ND	14.72		5467.11
MW-1	09/26/05	5481.83	ND	11.95		5469.88
MW-1	12/14/05	5481.83	ND	14.67		5467.16
MW-1	01/09/06	5481.83	ND	15.67		5466.16
MW-1	01/18/06	5481.83	ND	15.97		5465.86
MW-1	03/28/06	5481.83	ND	18.16		5463.67
MW-1	06/14/06	5481.83	ND	13.08		5468.75
MW-1	06/28/07	5481.83	ND	16.18		5465.65
MW-1	06/23/08	5481.83	ND	15.45		5466.38
MW-1	06/02/09	5481.83	ND	17.80		5464.03
MW-1	12/30/09	5481.83	ND	16.82		5465.01
MW-1	01/25/10	5481.83	ND	17.61		5464.22
MW-1	05/25/10	5481.83	ND	18.45		5463.38
MW-1	09/24/10	5481.83	ND	14.59		5467.24
MW-1	11/09/10	5481.83	ND	14.86		5466.97
MW-1	02/01/11	5481.83	ND	17.46		5464.37
MW-1	05/03/11	5481.83	ND	19.22		5462.61
MW-1	09/27/11	5481.83	ND	11.12		5470.71
MW-1	11/16/11	5481.83	ND	12.75		5469.08
MW-1	02/16/12	5481.83	ND	15.47		5466.36
MW-1	05/07/12	5481.83	ND	16.21		5465.62
MW-1	06/07/13	5481.83	ND	14.06		5467.77
MW-1	09/11/13	5481.83	ND	12.61		5469.22
MW-1	12/13/13	5481.83	ND	14.22		5467.61
MW-1	04/03/14	5481.83	ND	17.66		5464.17
MW-1	10/25/14	5481.83	ND	12.69		5469.14
MW-1	05/30/15	5481.83	ND	16.29		5465.54
MW-1	11/18/15	5481.83	ND	14.52		5467.31
MW-1	04/18/16	5481.83	ND	19.06		5462.77
MW-1	10/14/16	5481.83	ND	15.54		5466.29
MW-1	06/11/17	5481.83	ND	17.44		5464.39

**TABLE 2 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #142E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-1	11/13/17	5481.83	ND	14.65		5467.18
MW-1	05/17/18	5481.83	ND	16.74		5465.09
MW-1	10/28/18	5481.83	ND	12.31		5469.52
MW-1	05/22/19	5481.83	ND	15.85		5465.98
MW-1	11/11/19	5481.83	ND	11.51		5470.32
MW-1	05/15/20	5481.83	ND	15.37		5466.46
MW-1	11/11/20	5481.83	ND	11.91		5469.92
MW-2	12/13/01	5481.56	NR	14.52		5467.04
MW-2	05/14/02	5481.56	NR	14.37		5467.19
MW-2	09/17/03	5481.56	ND	DRY		5463.56
MW-2	03/22/04	5481.56	ND	17.06		5464.50
MW-2	03/17/05	5481.56	ND	17.83		5463.73
MW-2	09/14/05	5481.56	ND	11.45		5470.11
MW-2	01/09/06	5481.56	ND	15.35		5466.21
MW-2	01/18/06	5481.56	ND	15.65		5465.91
MW-2	06/14/06	5481.56	ND	12.64		5468.92
MW-2	06/28/07	5481.56	ND	16.86		5464.70
MW-2	06/23/08	5481.56	ND	15.15		5466.41
MW-2	06/02/09	5481.56	17.42	17.84	0.42	5464.04
MW-2	12/30/09	5481.56	16.45	16.48	0.03	5465.10
MW-2	01/25/10	5481.56	17.27	17.45	0.18	5464.25
MW-2	05/25/10	5481.56	18.05	18.55	0.50	5463.39
MW-2	09/24/10	5481.56	ND	14.25		5467.31
MW-2	11/09/10	5481.56	14.49	14.50	0.01	5467.07
MW-2	02/01/11	5481.56	ND	17.15		5464.41
MW-2	05/03/11	5481.56	ND	18.91		5462.65
MW-2	09/27/11	5481.56	ND	12.65		5468.91
MW-2	11/16/11	5481.56	ND	12.37		5469.19
MW-2	02/16/12	5481.56	ND	15.13		5466.43
MW-2	05/07/12	5481.56	ND	16.91		5464.65
MW-2	06/07/13	5481.56	ND	13.63		5467.93
MW-2	09/11/13	5481.56	ND	12.18		5469.38
MW-2	12/13/13	5481.56	ND	13.92		5467.64
MW-2	04/03/14	5481.56	17.31	17.42	0.11	5464.22
MW-2	10/25/14	5481.56	ND	12.14		5469.42
MW-2	05/30/15	5481.56	ND	15.92		5465.64
MW-2	11/18/15	5481.56	ND	14.26		5467.30
MW-2	04/18/16	5481.56	18.69	18.99	0.30	5462.80
MW-2	10/14/16	5481.56	ND	15.26		5466.30
MW-2	06/11/17	5481.56	17.09	17.23	0.14	5464.44
MW-2	11/13/17	5481.56	ND	14.28		5467.28
MW-2	05/17/18	5481.56	16.39	16.43	0.04	5465.16
MW-2	10/28/18	5481.56	ND	11.67		5469.89

**TABLE 2 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #142E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-2	05/22/19	5481.56	ND	15.56		5466.00
MW-2	11/11/19	5481.56	ND	10.92		5470.64
MW-2	05/15/20	5481.56	ND	15.05		5466.51
MW-2	11/11/20	5481.56	ND	11.35		5470.21
MW-3	10/25/14	5481.87	ND	12.53		5469.34
MW-3	05/30/15	5481.87	ND	16.32		5465.55
MW-3	11/18/15	5481.87	ND	14.65		5467.22
MW-3	04/18/16	5481.87	ND	19.18		5462.69
MW-3	10/14/16	5481.87	ND	15.64		5466.23
MW-3	06/11/17	5481.87	17.40	17.57	0.17	5464.43
MW-3	11/13/17	5481.87	ND	14.64		5467.23
MW-3	05/17/18	5481.87	ND	16.60		5465.27
MW-3	10/28/18	5481.87	ND	11.93		5469.94
MW-3	05/22/19	5481.87	ND	15.85		5466.02
MW-3	11/11/19	5481.87	ND	11.25		5470.62
MW-3	05/15/20	5481.87	ND	15.31		5466.56
MW-3	11/11/20	5481.87	ND	11.69		5470.18
MW-5	10/25/14	5482.04	ND	12.73		5469.31
MW-5	05/30/15	5482.04	ND	16.50		5465.54
MW-5	11/18/15	5482.04	ND	14.80		5467.24
MW-5	04/18/16	5482.04	ND	19.20		5462.84
MW-5	10/14/16	5482.04	ND	15.78		5466.26
MW-5	06/11/17	5482.04	ND	17.65		5464.39
MW-5	11/13/17	5482.04	ND	14.81		5467.23
MW-5	05/17/18	5482.04	ND	16.95		5465.09
MW-5	10/28/18	5482.04	ND	12.31		5469.73
MW-5	05/22/19	5482.04	ND	16.10		5465.94
MW-5	11/11/19	5482.04	ND	11.58		5470.46
MW-5	05/15/20	5482.04	ND	15.62		5466.42
MW-5	11/11/20	5482.04	ND	11.97		5470.07
MW-6	10/25/14	5481.45	ND	12.31		5469.14
MW-6	05/30/15	5481.45	ND	16.01		5465.44
MW-6	11/18/15	5481.45	ND	14.36		5467.09
MW-6	04/18/16	5481.45	ND	18.73		5462.72
MW-6	10/14/16	5481.45	ND	15.35		5466.10
MW-6	06/11/17	5481.45	ND	17.14		5464.31
MW-6	11/13/17	5481.45	ND	14.39		5467.06
MW-6	05/17/18	5481.45	ND	16.37		5465.08
MW-6	10/28/18	5481.45	ND	11.85		5469.60
MW-6	05/22/19	5481.45	ND	15.60		5465.85
MW-6	11/11/19	5481.45	ND	11.21		5470.24
MW-6	05/15/20	5481.45	ND	15.10		5466.35

**TABLE 2 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #142E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-6	11/11/20	5481.45	ND	11.59		5469.86
MW-7	10/25/14	5481.80	ND	12.59		5469.21
MW-7	05/30/15	5481.80	ND	16.32		5465.48
MW-7	11/18/15	5481.80	ND	14.67		5467.13
MW-7	04/18/16	5481.80	ND	19.09		5462.71
MW-7	10/14/16	5481.80	ND	15.66		5466.14
MW-7	06/11/17	5481.80	ND	17.44		5464.36
MW-7	11/13/17	5481.80	ND	14.67		5467.13
MW-7	05/17/18	5481.80	ND	16.62		5465.18
MW-7	10/28/18	5481.80	ND	12.01		5469.79
MW-7	05/22/19	5481.80	ND	15.86		5465.94
MW-7	11/11/19	5481.80	ND	11.37		5470.43
MW-7	05/15/20	5481.80	ND	15.35		5466.45
MW-7	11/11/20	5481.80	ND	11.78		5470.02
TMW-1	01/06/06	5481.43	ND	15.29		5466.14
TMW-1	01/09/06	5481.43	ND	15.27		5466.16
TMW-1	01/18/06	5481.43	ND	15.57		5465.87
TMW-1	06/23/08	5481.43	ND	15.04		5466.39
TMW-1	12/30/09	5481.43	ND	NA		NA
TMW-1	01/25/10	5481.43	ND	17.23		5464.20
TMW-1	05/25/10	5481.43	17.80	18.70		5463.41
TMW-1	09/24/10	5481.43	14.10	14.45		5467.25
TMW-1	11/09/10	5481.43	14.37	14.62		5467.00
TMW-1	02/01/11	5481.43	17.00	17.45		5464.32
TMW-1	05/03/11	5481.43	18.55	19.76		5462.58
TMW-1	09/27/11	5481.43	12.03	12.43		5469.30
TMW-1	11/16/11	5481.43	12.31	12.44		5469.09
TMW-1	02/16/12	5481.43	12.03	14.25		5468.85
TMW-1	05/07/12	5481.43	14.18	14.20		5467.25
TMW-1	06/07/13	5481.43	ND	13.65		5467.78
TMW-1	09/11/13	5481.43	ND	12.14		5469.29
TMW-1	12/13/13	5481.43	ND	13.90		5467.53
TMW-1	04/03/14	5481.43	17.25	17.36		5464.16
TMW-1 abandoned on September 8, 2014, and replaced with MW-8						
MW-8	10/25/14	5481.83	ND	12.50		5469.33
MW-8	05/30/15	5481.83	ND	16.28		5465.55
MW-8	11/18/15	5481.83	ND	14.60		5467.23
MW-8	04/18/16	5481.83	ND	19.11		5462.72
MW-8	10/14/16	5481.83	ND	15.61		5466.22
MW-8	06/11/17	5481.83	17.20	18.09	0.89	5464.41
MW-8	11/13/17	5481.83	ND	14.63		5467.20

**TABLE 2 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #142E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-8	05/17/18	5481.83	ND	16.64		5465.19
MW-8	10/28/18	5481.83	ND	11.97		5469.86
MW-8	05/22/19	5481.83	ND	15.85		5465.98
MW-8	11/11/19	5481.83	ND	11.26		5470.57
MW-8	05/15/20	5481.83	ND	15.33		5466.50
MW-8	11/11/20	5481.83	ND	11.69		5470.14

Notes:

"ft" = feet

"TOC" = Top of casing

LNAPL = light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = Presence or Absence of LNAPL not recorded

Groundwater elevation = Top of Casing elevation (TOC, ft) - (Depth to Water [ft] - [LPH thickness [ft] x 0.75]). A specific gravity of 0.75 is within the range of gas condensate (<https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate>)

## FIGURES

FIGURE 1: SITE LOCATION MAP

FIGURE 2: SITE PLAN

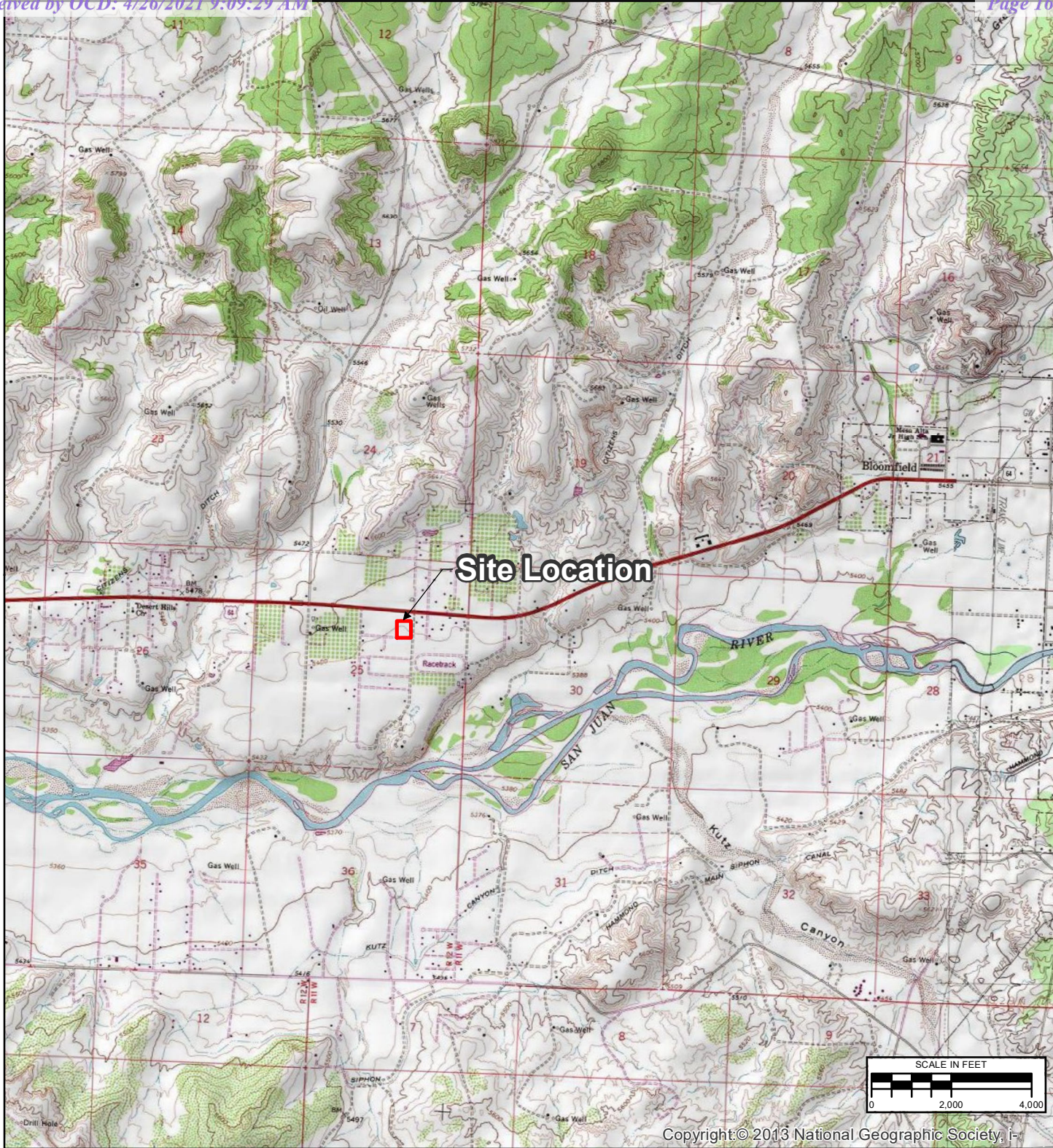
FIGURE 3: MAY 15, 2020 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: MAY 15, 2020 GROUNDWATER ELEVATION MAP


FIGURE 5: NOVEMBER 11, 2020 GROUNDWATER ANALYTICAL RESULTS  
MAP

FIGURE 6: NOVEMBER 11, 2020 GROUNDWATER ELEVATION MAP





REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/22/2021	SAH	SAH	SRV

TITLE	<b>SITE LOCATION</b>	
PROJECT	<b>GALLEGOS CANYON UNIT COM A #142E SAN JUAN RIVER BASIN SAN JUAN COUNTY, NEW MEXICO</b>	
FIGURE	<b>1</b>	





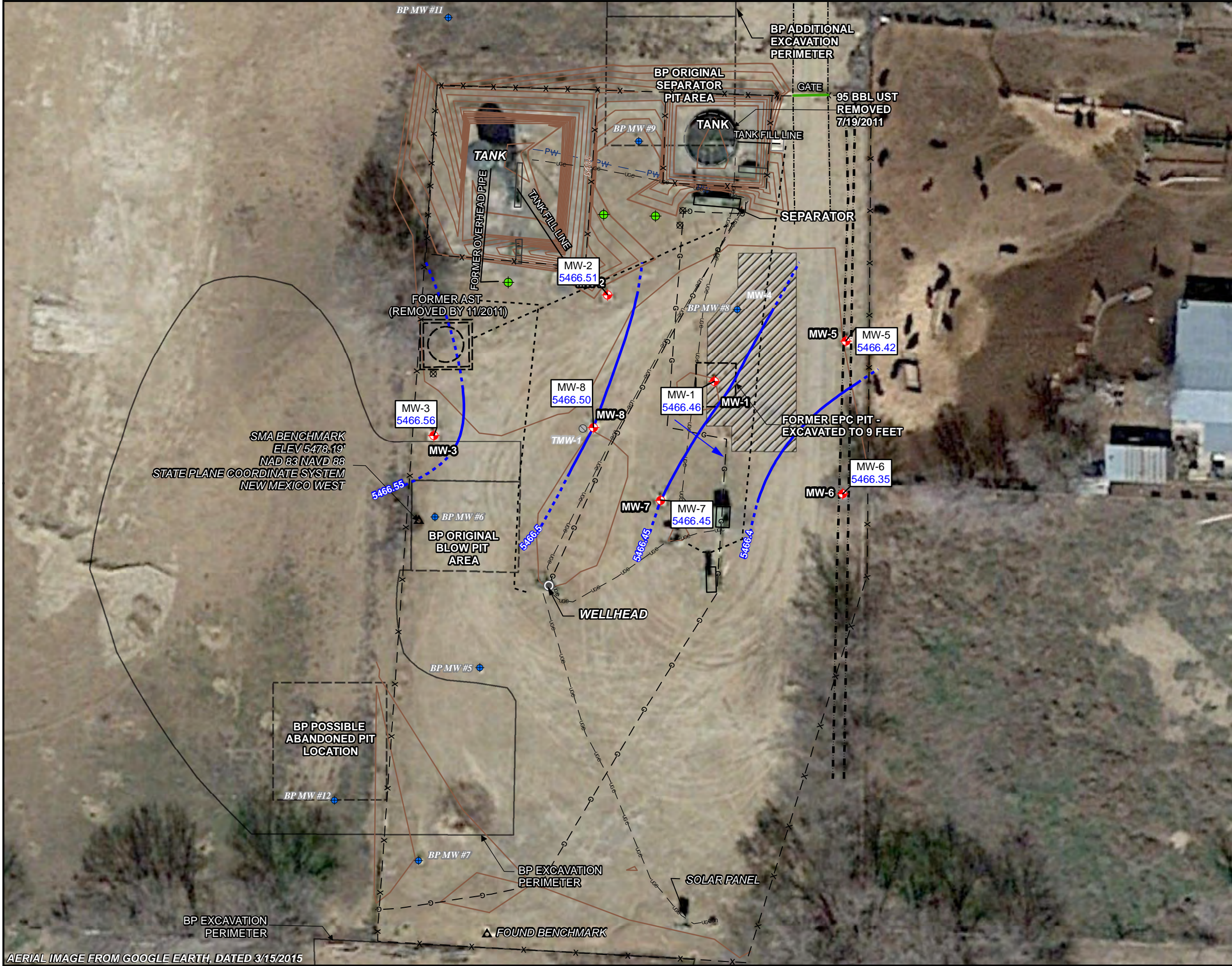


\\Us0389-ppf\ss01\shared\_projects\193710238\07\_historical\ISJB GENERAL\GIS-NEW\ MXDs\GALLEGOS CAYON UNIT #142E\2020 MAPS\GCU#142E GARM 1SA 2020.mxd





\\Us0389-pplss01\shared\_projects\193710238\07\_historical\ISJB GENERAL\GIS-NEW\_MXD\GALLEGOS CAYON UNIT #142E\2020 MAPS\IGU#142E\_GECM\_1SA\_2020.mxd



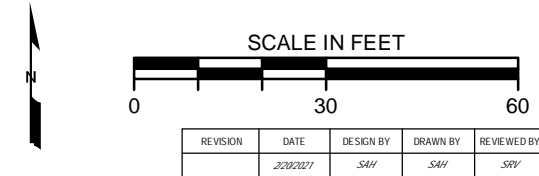
**LEGEND:**

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PRODUCED WATER LINE
- UNDERGROUND CABLE
- UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

**NOTES:**

- 5466.42** GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 5466.55** WATER LEVEL ELEVATION CONTOUR (DASHED WHERE INFERRED, FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW

UTILITY LOCATIONS ARE APPROXIMATE.  
MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)  
BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.



TITLE:  
*GROUNDWATER ELEVATION MAP  
MAY 15, 2020*

PROJECT:  
*GALLEGOS CANYON UNIT COM A #142E  
SAN JUAN COUNTY, NEW MEXICO*

	Figure No.: <b>4</b>
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AERIAL IMAGE FROM GOOGLE EARTH, DATED 3/15/2015

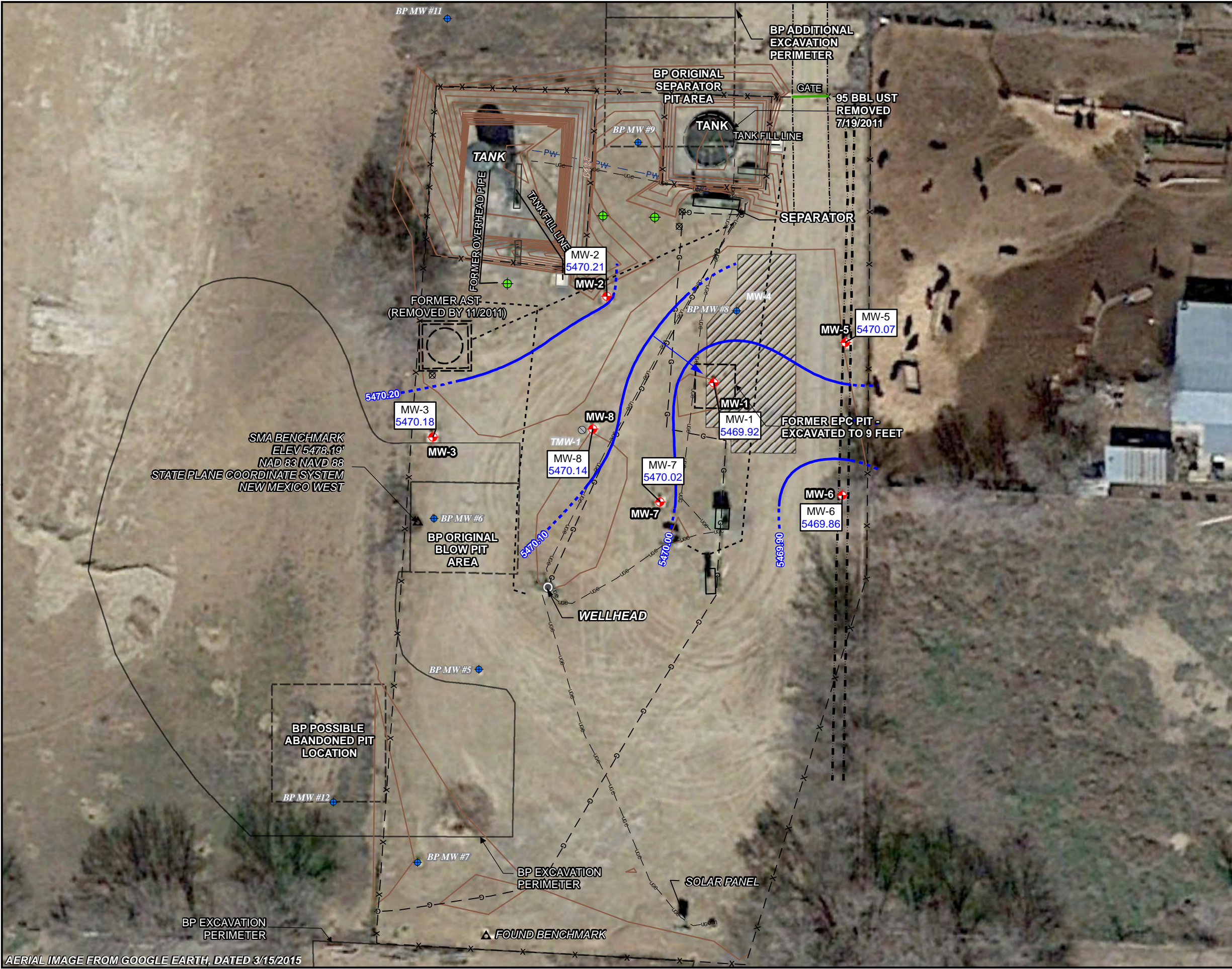


\\Us0389-ppf\ss01\shared\_projects\193710238\07\_historical\ISJB GENERAL\GIS-NEW\ MXDs\GALLEGOS CAYON UNIT #142E\2020 MAPS\GCU#142E GARM 2SA 2020.mxd





\\Us0389-pplss01\shared\_projects\193710238\07\_historical\GIS-NEW\_MXD\GALLEGOS CAYON UNIT #142E\2020 MAPS\IGU#142E\_GECM\_2SA\_2020.mxd



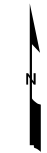
## LEGEND:

- 5795 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PW PRODUCED WATER LINE
- UG UNDERGROUND CABLE
- G UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

### NOTES:

- 5466.42 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 5466.55 WATER LEVEL ELEVATION CONTOUR (DASHED WHERE INFERRED, FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW

UTILITY LOCATIONS ARE APPROXIMATE.  
MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)  
BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/28/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP  
NOVEMBER 11, 2020

PROJECT:

GALLEGOS CANYON UNIT COM A #142E  
SAN JUAN COUNTY, NEW MEXICO



Figure No.:

6



## **APPENDICES**

APPENDIX A – NMOCD SUBMITTAL NOTICE FOR SITE CONCEPTUAL MODEL AND  
NO FUTHER ACTION REQUEST

APPENDIX B – NOTIFICATIONS OF SAMPLING ACTIVITIES

APPENDIX C – WASTE WATER DISPOSAL DOCUMENTATION

APPENDIX D – MAY 15, 2020 GROUNDWATER SAMPLING ANALYTICAL REPORT  
NOVEMBER 11, 2020 GROUNDWATER SAMPLING ANALYTICAL  
REPORT

# APPENDIX A

**From:** [Fields, Vanessa, EMNRD](#)  
**To:** [Varsa, Steve](#)  
**Subject:** RE: 3RP-179 GCU Com A #142E - 2018 Annual Report and No Further Action Request  
**Date:** Monday, February 11, 2019 12:25:58 PM

---

Thank you. I will process your request this afternoon.

Thank you,

Vanessa Fields  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 119  
Cell: (505) 419-0463  
[vanessa.fields@state.nm.us](mailto:vanessa.fields@state.nm.us)

---

**From:** Varsa, Steve <[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)>  
**Sent:** Monday, February 11, 2019 11:20 AM  
**To:** Fields, Vanessa, EMNRD <[Vanessa.Fields@state.nm.us](mailto:Vanessa.Fields@state.nm.us)>  
**Subject:** [EXT] RE: 3RP-179 GCU Com A #142E - 2018 Annual Report and No Further Action Request

Thanks Vanessa – I'll be mindful of the 20mb limit going forward.  
Steve

---

**From:** Fields, Vanessa, EMNRD <[Vanessa.Fields@state.nm.us](mailto:Vanessa.Fields@state.nm.us)>  
**Sent:** Monday, February 11, 2019 12:18 PM  
**To:** Varsa, Steve <[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)>  
**Cc:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Subject:** RE: 3RP-179 GCU Com A #142E - 2018 Annual Report and No Further Action Request

Hi Steve,

I did receive this, however I did not receive anything else from you.

Sorry about that.

Thank you,

Vanessa Fields  
Environmental Specialist  
Oil Conservation Division



Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 119  
Cell: (505) 419-0463  
[vanessa.fields@state.nm.us](mailto:vanessa.fields@state.nm.us)

---

**From:** Varsa, Steve <[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)>  
**Sent:** Monday, February 11, 2019 11:11 AM  
**To:** Fields, Vanessa, EMNRD <[Vanessa.Fields@state.nm.us](mailto:Vanessa.Fields@state.nm.us)>  
**Subject:** [EXT] FW: 3RP-179 GCU Com A #142E - 2018 Annual Report and No Further Action Request

Hi Vanessa – I'm assuming since there was no response the resend of the above-referenced report did not make it to you last Friday. Attached is a 13mb version (last one was 26mb). Please reply to confirm you received this e-mail.

Thank you,  
Steve

---

**From:** Varsa, Steve  
**Sent:** Friday, February 08, 2019 4:50 PM  
**To:** 'Fields, Vanessa, EMNRD' <[Vanessa.Fields@state.nm.us](mailto:Vanessa.Fields@state.nm.us)>  
**Subject:** FW: 3RP-179 GCU Com A #142E - 2018 Annual Report and No Further Action Request

Hi Vanessa – pursuant to our meeting on Wednesday, attached is the 2018 Annual report and NFA Request. Please reply to confirm you received it.

Thank you,  
Steve

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

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---

**From:** Varsa, Steve  
**Sent:** Monday, January 28, 2019 9:02 AM  
**To:** [Vanessa.Fields@state.nm.us](mailto:Vanessa.Fields@state.nm.us)  
**Cc:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Powell, Brandon, EMNRD <[Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)>; Griswold, Jim, EMNRD <[Jim.Griswold@state.nm.us](mailto:Jim.Griswold@state.nm.us)>; Wiley, Joe <[Joe\\_Wiley@kindermorgan.com](mailto:Joe_Wiley@kindermorgan.com)>  
**Subject:** 3RP-179 GCU Com A #142E - 2018 Annual Report and No Further Action Request

Hi Vanessa –

Please find attached the above-referenced report, which includes a site conceptual model and request for No Further Action. Please contact Joseph Wiley at (713) 420-3475 if you have any questions. We also look forward to discussing the findings during our meeting on February 6.

Thank you,  
Steve

**Stephen Varsa, P.G.**

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

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# APPENDIX B



**From:** [Varsa, Steve](#)  
**To:** [Smith, Cory, EMNRD](#)  
**Cc:** [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)  
**Bcc:** [Varsa, Steve](#)  
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities  
**Date:** Tuesday, May 05, 2020 9:45:00 PM

---

Hi Cory -

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

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	05/11/2020
Fields A#7A	3RP-170-0	05/13/2020
Fogelson 4-1	3RP-068-0	05/15/2020
Gallegos Canyon Unit #124E	3RP-407-0	05/16/2020
GCU Com A #142E	3RP-179-0	05/15/2020
James F. Bell #1E	3RP-196-0	05/16/2020
Johnston Fed #4	3RP-201-0	05/17/2020
Johnston Fed #6A	3RP-202-0	05/17/2020
K27 LDO72	3RP-204-0	05/12/2020
Knight #1	3RP-207-0	05/14/2020
Lateral L 40 Line Drip	3RP-212-0	05/14/2020
Miles Fed #1A	3RP-223-0	05/11/2020
Sandoval GC A #1A	3RP-235-0	05/15/2020
Standard Oil Com #1	3RP-238-0	05/12/2020
State Gas Com N #1	3RP-239-0	05/13/2020

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

Thank you,  
Steve

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

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**From:** [Smith, Cory, EMNRD](#)  
**To:** [Varsa, Steve](#)  
**Cc:** [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)  
**Subject:** RE: El Paso CGP Company - Notice of upcoming groundwater sampling activities  
**Date:** Thursday, November 05, 2020 8:56:01 AM

---

Steve,

Thank you for the notification.

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

---

**From:** Varsa, Steve <steve.varsa@stantec.com>  
**Sent:** Thursday, November 5, 2020 6:02 AM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Cc:** Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Wiley, Joe <joe\_wiley@kindermorgan.com>  
**Subject:** [EXT] El Paso CGP Company - Notice of upcoming groundwater sampling activities

Hi Cory -

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

Site Name	NMOCD Case #	Sample Date
Canada Mesa #2	3RP-155-0	11/12/2020
Fields A#7A	3RP-170-0	11/14/2020
Fogelson 4-1	3RP-068-0	11/14/2020
Gallegos Canyon Unit #124E	3RP-407-0	11/11/2020
GCU Com A #142E	3RP-179-0	11/11/2020
James F. Bell #1E	3RP-196-0	11/15/2020
Johnston Fed #4	3RP-201-0	11/13/2020
Johnston Fed #6A	3RP-202-0	11/13/2020
K27 LDO72	3RP-204-0	11/12/2020
Knight #1	3RP-207-0	11/11/2020
Lateral L 40 Line Drip	3RP-212-0	11/15/2020
Miles Fed #1A	3RP-223-0	11/12/2020
Sandoval GC A #1A	3RP-235-0	11/13/2020
Standard Oil Com #1	3RP-238-0	11/12/2020
State Gas Com N #1	3RP-239-0	11/14/2020

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

Thank you,  
Steve

**Stephen Varsa, P.G.**

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

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# APPENDIX C

# 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. **792696**  
NMOCD PERMIT: NM-001-0005  
Oil Field Waste Document, Form C138  
INVOICE:

DATE 5-16-20  
GENERATOR: EI Para  
HAULING CO: Stanley  
ORDERED BY: Joe

DEL. TKT# \_\_\_\_\_  
BILL TO: EI Para  
DRIVER: Stanley  
(Print Full Name)  
CODES: \_\_\_\_\_

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		J. F. Bell	5 gals	.20				
2		GCU 4 124E	5 gals					
3		GCU Com A	5 gals					
4								
5								

20 MAY 15 1:21 PM

I, Stanley 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 Stanley

SAN JUAN PRINTING 0818018B



# 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. **800456**

NMOCD PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE 11-13-20

GENERATOR: CGP

HAULING CO. CGP

ORDERED BY: Joe W.

DEL. TKT#.

BILL TO: CGP

DRIVER: Sean  
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

☒ Produced Water

☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Canada mesa #2	10	70			70	
2		K-276 D072 miles Federal #1A						
3		Standard oil com #1						
4		High #1, Gallegos Canyon #124E						
5		Enc V com A #172E						

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

☒ Approved

☐ Denied

ATTENDANT SIGNATURE [Signature]

SAN JUAN PRINTING 2020 1973-1

# APPENDIX D



Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 400-195815-1

Client Project/Site: Gallegos Canyon Unit #124E

For:

Stantec Consulting Services Inc  
11153 Aurora Avenue  
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Authorized for release by:  
11/30/2020 11:55:51 AM

Marty Edwards, Client Service Manager  
(850)471-6227

[Marty.Edwards@Eurofinset.com](mailto:Marty.Edwards@Eurofinset.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Laboratory Job ID: 400-195815-1

# 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 . . . . .	17
Method Summary . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	20

1

2

3

4

5

6

7

8

9

10

11

12

13

14



## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count



## Case Narrative

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

**Job ID: 400-195815-1**

**Laboratory: Eurofins TestAmerica, Pensacola**

**Narrative**

**Job Narrative**  
**400-195815-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/13/2020 9:44 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0° C.

**GC/MS VOA**

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

**VOA Prep**

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

Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: TB-01

Lab Sample ID: 400-195815-1

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-195815-2

No Detections.

Client Sample ID: MW-3

Lab Sample ID: 400-195815-3

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 400-195815-4

No Detections.

Client Sample ID: MW-6

Lab Sample ID: 400-195815-5

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 400-195815-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195815-1	TB-01	Water	11/11/20 15:00	11/13/20 09:44	
400-195815-2	DUP-01	Water	11/11/20 16:39	11/13/20 09:44	
400-195815-3	MW-3	Water	11/11/20 15:45	11/13/20 09:44	
400-195815-4	MW-4	Water	11/11/20 16:09	11/13/20 09:44	
400-195815-5	MW-6	Water	11/11/20 16:17	11/13/20 09:44	
400-195815-6	MW-7	Water	11/11/20 16:25	11/13/20 09:44	

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: TB-01

Lab Sample ID: 400-195815-1

Date Collected: 11/11/20 15:00

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/24/20 21:53	1
Toluene	<1.0		1.0	ug/L			11/24/20 21:53	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 21:53	1
Xylenes, Total	<10		10	ug/L			11/24/20 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118		11/24/20 21:53	1
Dibromofluoromethane	106		81 - 121		11/24/20 21:53	1
Toluene-d8 (Surr)	98		80 - 120		11/24/20 21:53	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: DUP-01

Lab Sample ID: 400-195815-2

Date Collected: 11/11/20 16:39

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/24/20 17:06	1
Toluene	<1.0		1.0	ug/L			11/24/20 17:06	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 17:06	1
Xylenes, Total	<10		10	ug/L			11/24/20 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118		11/24/20 17:06	1
Dibromofluoromethane	104		81 - 121		11/24/20 17:06	1
Toluene-d8 (Surr)	98		80 - 120		11/24/20 17:06	1



## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: MW-3

Lab Sample ID: 400-195815-3

Date Collected: 11/11/20 15:45

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/24/20 22:18	1
Toluene	<1.0		1.0	ug/L			11/24/20 22:18	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 22:18	1
Xylenes, Total	<10		10	ug/L			11/24/20 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118		11/24/20 22:18	1
Dibromofluoromethane	105		81 - 121		11/24/20 22:18	1
Toluene-d8 (Surr)	98		80 - 120		11/24/20 22:18	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: MW-4

Lab Sample ID: 400-195815-4

Date Collected: 11/11/20 16:09

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/24/20 22:44	1
Toluene	<1.0		1.0	ug/L			11/24/20 22:44	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 22:44	1
Xylenes, Total	<10		10	ug/L			11/24/20 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118		11/24/20 22:44	1
Dibromofluoromethane	104		81 - 121		11/24/20 22:44	1
Toluene-d8 (Surr)	97		80 - 120		11/24/20 22:44	1

Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: MW-6  
Date Collected: 11/11/20 16:17  
Date Received: 11/13/20 09:44

Lab Sample ID: 400-195815-5  
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/24/20 23:10	1
Toluene	<1.0		1.0	ug/L			11/24/20 23:10	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 23:10	1
Xylenes, Total	<10		10	ug/L			11/24/20 23:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118				11/24/20 23:10	1
Dibromofluoromethane	107		81 - 121				11/24/20 23:10	1
Toluene-d8 (Surr)	98		80 - 120				11/24/20 23:10	1

Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

Client Sample ID: MW-7  
Date Collected: 11/11/20 16:25  
Date Received: 11/13/20 09:44

Lab Sample ID: 400-195815-6  
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/24/20 23:37	1
Toluene	<1.0		1.0	ug/L			11/24/20 23:37	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 23:37	1
Xylenes, Total	<10		10	ug/L			11/24/20 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118				11/24/20 23:37	1
Dibromofluoromethane	107		81 - 121				11/24/20 23:37	1
Toluene-d8 (Surr)	98		80 - 120				11/24/20 23:37	1

QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

GC/MS VOA

Analysis Batch: 511985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195815-1	TB-01	Total/NA	Water	8260C	
400-195815-2	DUP-01	Total/NA	Water	8260C	
400-195815-3	MW-3	Total/NA	Water	8260C	
400-195815-4	MW-4	Total/NA	Water	8260C	
400-195815-5	MW-6	Total/NA	Water	8260C	
400-195815-6	MW-7	Total/NA	Water	8260C	
MB 400-511985/4	Method Blank	Total/NA	Water	8260C	
LCS 400-511985/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195815-2 MS	DUP-01	Total/NA	Water	8260C	
400-195815-2 MSD	DUP-01	Total/NA	Water	8260C	

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

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

Lab Sample ID: MB 400-511985/4

Matrix: Water

Analysis Batch: 511985

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			11/24/20 16:42	1
Toluene	<1.0		1.0	ug/L			11/24/20 16:42	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 16:42	1
Xylenes, Total	<10		10	ug/L			11/24/20 16:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118		11/24/20 16:42	1
Dibromofluoromethane	100		81 - 121		11/24/20 16:42	1
Toluene-d8 (Surr)	97		80 - 120		11/24/20 16:42	1

Lab Sample ID: LCS 400-511985/1002

Matrix: Water

Analysis Batch: 511985

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	50.5		ug/L		101	70 - 130
Toluene	50.0	48.8		ug/L		98	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Xylenes, Total	100	98.9		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 400-195815-2 MS

Matrix: Water

Analysis Batch: 511985

Client Sample ID: DUP-01

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	41.0		ug/L		82	56 - 142
Toluene	<1.0		50.0	36.2		ug/L		72	65 - 130
Ethylbenzene	<1.0		50.0	31.8		ug/L		64	58 - 131
Xylenes, Total	<10		100	61.9		ug/L		62	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 400-195815-2 MSD

Matrix: Water

Analysis Batch: 511985

Client Sample ID: DUP-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<1.0		50.0	46.2		ug/L		92	56 - 142	12	30
Toluene	<1.0		50.0	40.2		ug/L		80	65 - 130	10	30
Ethylbenzene	<1.0		50.0	35.8		ug/L		72	58 - 131	12	30

Eurofins TestAmerica, Pensacola



## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

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

**Lab Sample ID: 400-195815-2 MSD**

**Client Sample ID: DUP-01**

**Matrix: Water**

Prep Type: Total/NA

**Analysis Batch: 511985**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	69.4		ug/L		69	59 - 130	11	30

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>4-Bromofluorobenzene</i>	92		78 - 118
<i>Dibromofluoromethane</i>	103		81 - 121
<i>Toluene-d8 (Surr)</i>	96		80 - 120

## Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

## Client Sample ID: TB-01

Date Collected: 11/11/20 15:00

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195815-1

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	511985	11/24/20 21:53	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: DUP-01

Date Collected: 11/11/20 16:39

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195815-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	511985	11/24/20 17:06	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-3

Date Collected: 11/11/20 15:45

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195815-3

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	511985	11/24/20 22:18	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-4

Date Collected: 11/11/20 16:09

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195815-4

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	511985	11/24/20 22:44	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-6

Date Collected: 11/11/20 16:17

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195815-5

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	511985	11/24/20 23:10	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-7

Date Collected: 11/11/20 16:25

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195815-6

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	511985	11/24/20 23:37	WPD	TAL PEN
Instrument ID: CH_TAN										

## Laboratory References:

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

Eurofins TestAmerica, Pensacola

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

### Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20

Eurofins TestAmerica, Pensacola

Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-195815-1

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

Protocol References:

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

Laboratory References:

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

Client Information		Company		Lab PM:		Carrier (Tracking No.)		COC No	
Client Contact Steve Varso		Stantec Consulting Services Inc		Edwards, Marty P		400-97373-35218.1		400-97373-35218.1	
Address:		Address:		E-Mail		Page		Page	
11153 Aurora Avenue		11153 Aurora Avenue		Marty Edwards@Eurofinset.com		Page 1 of 1		Page 1 of 1	
City:		City:		Job #		Job #		Job #	
Des Moines		Des Moines							
State, Zip:		State, Zip:							
IA, 50322-7904		IA, 50322-7904							
Phone:		Phone:							
303-291-2239 (Trl)		303-291-2239 (Trl)							
Email:		Email:							
steve.varso@stantec.com		steve.varso@stantec.com							
Project Name:		Project Name:							
Gallegos Canyon Unit #124E.00		Gallegos Canyon Unit #124E.00							
Site:		Site:							
GCU 124 E		GCU 124 E							
W-SPR-STR-11-02-20-		W-SPR-STR-11-02-20-							
SAH-04 Gallegos Canyon Unit		SAH-04 Gallegos Canyon Unit							
Sample Identification		Sample Identification							
Sample Date	Sample Time	Sample Type (G=grab, B=bulk)	Matrix (Water, Soil, Sediment, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	860C - (MOD) BTEX 8260	Analysis Requested	Carrier (Tracking No.)	COC No
11/11/2020	1500	G	Water						
11/11/2020	1639	G	Water						
11/11/2020	1545	G	Water						
11/11/2020	1609	G	Water						
11/11/2020	1617	G	Water						
11/11/2020	1625	G	Water						
			Water						
			Water						



## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-195815-1

Login Number: 195815

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Hinrichsen, Megan E

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-9
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 400-195816-1

Client Project/Site: El Paso CGP Company LLC - GCU Com  
A#142E

For:

Stantec Consulting Services Inc  
11153 Aurora Avenue  
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Authorized for release by:  
11/30/2020 12:10:10 PM

Marty Edwards, Client Service Manager  
(850)471-6227  
[Marty.Edwards@Eurofinset.com](mailto:Marty.Edwards@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Laboratory Job ID: 400-195816-1

# 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 . . . . .	16
QC Sample Results . . . . .	17
Chronicle . . . . .	20
Certification Summary . . . . .	22
Method Summary . . . . .	23
Chain of Custody . . . . .	24
Receipt Checklists . . . . .	25

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

## Definitions/Glossary

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

## Case Narrative

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

### Job ID: 400-195816-1

Laboratory: Eurofins TestAmerica, Pensacola

#### Narrative

#### Job Narrative 400-195816-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/13/2020 9:44 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0° C.

#### GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (400-195816-4). Elevated reporting limits (RLs) are provided.

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

#### VOA Prep

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

**Detection Summary**

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

**Client Sample ID: TB-1****Lab Sample ID: 400-195816-1**

No Detections.

**Client Sample ID: DUP-01****Lab Sample ID: 400-195816-2**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.4		1.0	ug/L	1		8260C	Total/NA

**Client Sample ID: MW-1****Lab Sample ID: 400-195816-3**

No Detections.

**Client Sample ID: MW-2****Lab Sample ID: 400-195816-4**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1100		10	ug/L	10		8260C	Total/NA
Ethylbenzene	550		10	ug/L	10		8260C	Total/NA
Xylenes, Total - DL	3800		200	ug/L	20		8260C	Total/NA

**Client Sample ID: MW-3****Lab Sample ID: 400-195816-5**

No Detections.

**Client Sample ID: MW-5****Lab Sample ID: 400-195816-6**

No Detections.

**Client Sample ID: MW-6****Lab Sample ID: 400-195816-7**

No Detections.

**Client Sample ID: MW-7****Lab Sample ID: 400-195816-8**

No Detections.

**Client Sample ID: MW-8****Lab Sample ID: 400-195816-9**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-195816-1	TB-1	Water	11/11/20 12:00	11/13/20 09:44	
400-195816-2	DUP-01	Water	11/11/20 14:24	11/13/20 09:44	
400-195816-3	MW-1	Water	11/11/20 14:04	11/13/20 09:44	
400-195816-4	MW-2	Water	11/11/20 14:11	11/13/20 09:44	
400-195816-5	MW-3	Water	11/11/20 14:18	11/13/20 09:44	
400-195816-6	MW-5	Water	11/11/20 14:30	11/13/20 09:44	
400-195816-7	MW-6	Water	11/11/20 14:38	11/13/20 09:44	
400-195816-8	MW-7	Water	11/11/20 14:49	11/13/20 09:44	
400-195816-9	MW-8	Water	11/11/20 13:54	11/13/20 09:44	



## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: TB-1

Lab Sample ID: 400-195816-1

Date Collected: 11/11/20 12:00

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/25/20 00:03	1
Toluene	<1.0		1.0	ug/L			11/25/20 00:03	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 00:03	1
Xylenes, Total	<10		10	ug/L			11/25/20 00:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118				11/25/20 00:03	1
Dibromofluoromethane	107		81 - 121				11/25/20 00:03	1
Toluene-d8 (Surr)	98		80 - 120				11/25/20 00:03	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: DUP-01

Lab Sample ID: 400-195816-2

Date Collected: 11/11/20 14:24

Matrix: Water

Date Received: 11/13/20 09:44

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.4		1.0	ug/L			11/25/20 00:29	1
Toluene	<1.0		1.0	ug/L			11/25/20 00:29	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 00:29	1
Xylenes, Total	<10		10	ug/L			11/25/20 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118				11/25/20 00:29	1
Dibromofluoromethane	106		81 - 121				11/25/20 00:29	1
Toluene-d8 (Surr)	98		80 - 120				11/25/20 00:29	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-1

Lab Sample ID: 400-195816-3

Date Collected: 11/11/20 14:04

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/25/20 00:55	1
Toluene	<1.0		1.0	ug/L			11/25/20 00:55	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 00:55	1
Xylenes, Total	<10		10	ug/L			11/25/20 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118		11/25/20 00:55	1
Dibromofluoromethane	108		81 - 121		11/25/20 00:55	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 00:55	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-2

Lab Sample ID: 400-195816-4

Date Collected: 11/11/20 14:11

Matrix: Water

Date Received: 11/13/20 09:44

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1100		10	ug/L			11/25/20 03:05	10
Toluene	<10		10	ug/L			11/25/20 03:05	10
Ethylbenzene	550		10	ug/L			11/25/20 03:05	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				11/25/20 03:05	10
Dibromofluoromethane	100		81 - 121				11/25/20 03:05	10
Toluene-d8 (Surr)	103		80 - 120				11/25/20 03:05	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	3800		200	ug/L			11/25/20 13:26	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				11/25/20 13:26	20
Dibromofluoromethane	102		81 - 121				11/25/20 13:26	20
Toluene-d8 (Surr)	99		80 - 120				11/25/20 13:26	20

Eurofins TestAmerica, Pensacola



Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-3  
Date Collected: 11/11/20 14:18  
Date Received: 11/13/20 09:44

Lab Sample ID: 400-195816-5  
Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/25/20 01:21	1
Toluene	<1.0		1.0	ug/L			11/25/20 01:21	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 01:21	1
Xylenes, Total	<10		10	ug/L			11/25/20 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		78 - 118		11/25/20 01:21	1
Dibromofluoromethane	105		81 - 121		11/25/20 01:21	1
Toluene-d8 (Surr)	101		80 - 120		11/25/20 01:21	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-5

Lab Sample ID: 400-195816-6

Date Collected: 11/11/20 14:30

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/25/20 01:47	1
Toluene	<1.0		1.0	ug/L			11/25/20 01:47	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 01:47	1
Xylenes, Total	<10		10	ug/L			11/25/20 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		78 - 118		11/25/20 01:47	1
Dibromofluoromethane	108		81 - 121		11/25/20 01:47	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 01:47	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-6

Lab Sample ID: 400-195816-7

Date Collected: 11/11/20 14:38

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/25/20 02:13	1
Toluene	<1.0		1.0	ug/L			11/25/20 02:13	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 02:13	1
Xylenes, Total	<10		10	ug/L			11/25/20 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		78 - 118		11/25/20 02:13	1
Dibromofluoromethane	108		81 - 121		11/25/20 02:13	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 02:13	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-7

Lab Sample ID: 400-195816-8

Date Collected: 11/11/20 14:49

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/25/20 02:39	1
Toluene	<1.0		1.0	ug/L			11/25/20 02:39	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 02:39	1
Xylenes, Total	<10		10	ug/L			11/25/20 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118				11/25/20 02:39	1
Dibromofluoromethane	108		81 - 121				11/25/20 02:39	1
Toluene-d8 (Surr)	97		80 - 120				11/25/20 02:39	1



## Client Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

Client Sample ID: MW-8

Lab Sample ID: 400-195816-9

Date Collected: 11/11/20 13:54

Matrix: Water

Date Received: 11/13/20 09:44

## 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			11/25/20 08:28	1
Toluene	<1.0		1.0	ug/L			11/25/20 08:28	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 08:28	1
Xylenes, Total	<10		10	ug/L			11/25/20 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118		11/25/20 08:28	1
Dibromofluoromethane	108		81 - 121		11/25/20 08:28	1
Toluene-d8 (Surr)	96		80 - 120		11/25/20 08:28	1

## QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

## GC/MS VOA

## Analysis Batch: 511985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195816-1	TB-1	Total/NA	Water	8260C	
400-195816-2	DUP-01	Total/NA	Water	8260C	
400-195816-3	MW-1	Total/NA	Water	8260C	
400-195816-4	MW-2	Total/NA	Water	8260C	
400-195816-5	MW-3	Total/NA	Water	8260C	
400-195816-6	MW-5	Total/NA	Water	8260C	
400-195816-7	MW-6	Total/NA	Water	8260C	
400-195816-8	MW-7	Total/NA	Water	8260C	
MB 400-511985/4	Method Blank	Total/NA	Water	8260C	
LCS 400-511985/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195815-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-195815-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

## Analysis Batch: 512038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-195816-4 - DL	MW-2	Total/NA	Water	8260C	
400-195816-9	MW-8	Total/NA	Water	8260C	
MB 400-512038/4	Method Blank	Total/NA	Water	8260C	
LCS 400-512038/1002	Lab Control Sample	Total/NA	Water	8260C	
400-195818-A-12 MS	Matrix Spike	Total/NA	Water	8260C	
400-195818-A-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

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

Lab Sample ID: MB 400-511985/4

Matrix: Water

Analysis Batch: 511985

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			11/24/20 16:42	1
Toluene	<1.0		1.0	ug/L			11/24/20 16:42	1
Ethylbenzene	<1.0		1.0	ug/L			11/24/20 16:42	1
Xylenes, Total	<10		10	ug/L			11/24/20 16:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		78 - 118		11/24/20 16:42	1
Dibromofluoromethane	100		81 - 121		11/24/20 16:42	1
Toluene-d8 (Surr)	97		80 - 120		11/24/20 16:42	1

Lab Sample ID: LCS 400-511985/1002

Matrix: Water

Analysis Batch: 511985

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	50.5		ug/L		101	70 - 130
Toluene	50.0	48.8		ug/L		98	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Xylenes, Total	100	98.9		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 400-195815-A-2 MS

Matrix: Water

Analysis Batch: 511985

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	41.0		ug/L		82	56 - 142
Toluene	<1.0		50.0	36.2		ug/L		72	65 - 130
Ethylbenzene	<1.0		50.0	31.8		ug/L		64	58 - 131
Xylenes, Total	<10		100	61.9		ug/L		62	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	92		78 - 118
Dibromofluoromethane	102		81 - 121
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 400-195815-A-2 MSD

Matrix: Water

Analysis Batch: 511985

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	Limit
Benzene	<1.0		50.0	46.2		ug/L		92	56 - 142	12	30
Toluene	<1.0		50.0	40.2		ug/L		80	65 - 130	10	30
Ethylbenzene	<1.0		50.0	35.8		ug/L		72	58 - 131	12	30

Eurofins TestAmerica, Pensacola

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

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

Lab Sample ID: 400-195815-A-2 MSD

Matrix: Water

Analysis Batch: 511985

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	69.4		ug/L		69	59 - 130	11	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	92		78 - 118								
Dibromofluoromethane	103		81 - 121								
Toluene-d8 (Surr)	96		80 - 120								

Lab Sample ID: MB 400-512038/4

Matrix: Water

Analysis Batch: 512038

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			11/25/20 08:04	1
Toluene	<1.0		1.0	ug/L			11/25/20 08:04	1
Ethylbenzene	<1.0		1.0	ug/L			11/25/20 08:04	1
Xylenes, Total	<10		10	ug/L			11/25/20 08:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		78 - 118				11/25/20 08:04	1
Dibromofluoromethane	111		81 - 121				11/25/20 08:04	1
Toluene-d8 (Surr)	97		80 - 120				11/25/20 08:04	1

Lab Sample ID: LCS 400-512038/1002

Matrix: Water

Analysis Batch: 512038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.0		ug/L		102	70 - 130
Toluene	50.0	47.8		ug/L		96	70 - 130
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Xylenes, Total	100	97.2		ug/L		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	91		78 - 118				
Dibromofluoromethane	106		81 - 121				
Toluene-d8 (Surr)	95		80 - 120				

Lab Sample ID: 400-195818-A-12 MS

Matrix: Water

Analysis Batch: 512038

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	46.5		ug/L		93	56 - 142
Toluene	<1.0		50.0	43.3		ug/L		87	65 - 130
Ethylbenzene	<1.0		50.0	43.2		ug/L		86	58 - 131
Xylenes, Total	<10		100	85.5		ug/L		86	59 - 130

Eurofins TestAmerica, Pensacola



## QC Sample Results

Client: Stantec Consulting Services Inc  
 Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

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

Lab Sample ID: 400-195818-A-12 MS

Matrix: Water

Analysis Batch: 512038

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	90		78 - 118
Dibromofluoromethane	104		81 - 121
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 400-195818-A-12 MSD

Matrix: Water

Analysis Batch: 512038

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	51.3		ug/L		103	56 - 142	10	30
Toluene	<1.0		50.0	48.2		ug/L		96	65 - 130	11	30
Ethylbenzene	<1.0		50.0	48.1		ug/L		96	58 - 131	11	30
Xylenes, Total	<10		100	95.1		ug/L		95	59 - 130	11	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	90		78 - 118
Dibromofluoromethane	107		81 - 121
Toluene-d8 (Surr)	96		80 - 120

## Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

## Client Sample ID: TB-1

Lab Sample ID: 400-195816-1

Date Collected: 11/11/20 12:00

Matrix: Water

Date Received: 11/13/20 09:44

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	511985	11/25/20 00:03	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: DUP-01

Lab Sample ID: 400-195816-2

Date Collected: 11/11/20 14:24

Matrix: Water

Date Received: 11/13/20 09:44

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	511985	11/25/20 00:29	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-1

Lab Sample ID: 400-195816-3

Date Collected: 11/11/20 14:04

Matrix: Water

Date Received: 11/13/20 09:44

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	511985	11/25/20 00:55	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-2

Lab Sample ID: 400-195816-4

Date Collected: 11/11/20 14:11

Matrix: Water

Date Received: 11/13/20 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	5 mL	5 mL	511985	11/25/20 03:05	WPD	TAL PEN
Instrument ID: CH_TAN										
Total/NA	Analysis	8260C	DL	20	5 mL	5 mL	512038	11/25/20 13:26	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-3

Lab Sample ID: 400-195816-5

Date Collected: 11/11/20 14:18

Matrix: Water

Date Received: 11/13/20 09:44

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	511985	11/25/20 01:21	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-5

Lab Sample ID: 400-195816-6

Date Collected: 11/11/20 14:30

Matrix: Water

Date Received: 11/13/20 09:44

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	511985	11/25/20 01:47	WPD	TAL PEN
Instrument ID: CH_TAN										

Eurofins TestAmerica, Pensacola

## Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

## Client Sample ID: MW-6

Date Collected: 11/11/20 14:38

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195816-7

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	8260C		1	5 mL	5 mL	511985	11/25/20 02:13	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-7

Date Collected: 11/11/20 14:49

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195816-8

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	8260C		1	5 mL	5 mL	511985	11/25/20 02:39	WPD	TAL PEN
Instrument ID: CH_TAN										

## Client Sample ID: MW-8

Date Collected: 11/11/20 13:54

Date Received: 11/13/20 09:44

## Lab Sample ID: 400-195816-9

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	8260C		1	5 mL	5 mL	512038	11/25/20 08:28	WPD	TAL PEN
Instrument ID: CH_TAN										

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

### Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20

Eurofins TestAmerica, Pensacola



Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company LLC - GCU Com A#142E

Job ID: 400-195816-1

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

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

**Laboratory References:**  
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



## Chain of Custody Record

[illegible]

## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-195816-1

Login Number: 195816

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Hinrichsen, Megan E

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-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 25467

**CONDITIONS**

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID:
	7046
	Action Number:
	25467
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Review of the 2020 Annual Groundwater Report for GCU #142E: Content Satisfactory 1. Please provide documentation that EPNGC--or another party--is responsible for a portion of remediation at the site. 2. A closure report must be submitted following all requirements in 19.15.30.19 of the NMAC 3. Continue to monitor groundwater and conduct sampling until eight (8) consecutive events has been achieved with the COC standards below those in 20.6.2.3103 of the NMAC. 4. Continue to submit annual reports to NMOCD by April 1, 2024.	1/30/2024