2017 ANNUAL GROUNDWATER REPORT

Canada Mesa #2
NMOCD Case#: 3RP-155-0
Meter Code: 87640
T24N, R6W, Sec 24, Unit I

SITE DETAILS

Site Location: Latitude: 36.296081 N, Longitude: -107.414109 W
Land Type: Federal
Former Operator: Merrion Oil & Gas (well P&A'd)

SITE BACKGROUND

Environmental Remediation activities at the Canada Mesa #2 (Site) are managed pursuant to the procedures set forth in the document entitled, "Remediation Plan for Groundwater Encountered during Pit Closure Activities" (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's (EPCGP's) program methods. Formerly, the Site was operated by Merrion Oil & Gas Company and is no longer active.

Canada Mesa #2 is located on Federal land. An initial site assessment was completed in July 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in August of 1994. Various site investigations have occurred since 1994. Monitoring wells were installed in 1995 (MW-1) and 2000 (MW-2 and MW-3). Monitoring wells MW-2 and MW-3 were abandoned in May 2016, ahead of Merrion Oil and Gas Company's reclamation activities.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to 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. Monitoring well MW-1 was gauged on June 7, 2017, and November 14, 2017. Groundwater samples were collected from MW-1 on June 7, 2017, using a HydraSleeve™ (HydraSleeve) no-purge groundwater sampling device. A groundwater sample was not collected from MW-1 on November 14, 2017, due to the presence of free product. The HydraSleeve was 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.

The groundwater sample was 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, 2018, BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260. The unused sample water was placed in a waste container and taken to Basin Disposal, Inc. for disposal. Waste disposal documentation was included as Appendix B.

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FREE PRODUCT

Free product was observed in monitoring well MW-1 during the November 2017 gauging event, and a trace amount was recovered during this event.

SUMMARY TABLES

Historic analytical and water level data are summarized in Table 1 and Table 2, respectively. When free product was present, static water level elevations were corrected for measurable thicknesses of free-product (specific gravity of 0.75).

SITE MAPS

Groundwater analytical maps (Figures 1 and 3) and groundwater elevation maps (Figures 2 and 4) summarize results of the 2017 groundwater sampling and gauging events. Groundwater elevation contours were not presented for 2017 due to their only being one monitoring well at the Site.

ANALYTICAL LAB REPORTS

The June 2017 groundwater analytical lab report is included as Appendix C. No groundwater samples were collected for analysis during the November 2017 monitoring event.

GROUNDWATER RESULTS

- Only one monitoring well was present at the site during the June and November 2017 monitoring events; therefore, groundwater flow direction could not be determined.
- Benzene in the sample collected in June 2017 at MW-1 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 µg/L) in groundwater.
- Toluene in the sample collected in June 2017 at MW-1 exceeded the NMWQCC standard (750 µg/L) for groundwater.
- Ethylbenzene was detected in the sample collected at MW-1 in June 2017, but did not exceed the NMWQCC standard (750 µg/L) for groundwater
- Total Xylenes in the sample collected in June 2017 at MW-1 exceeded the NMWQCC standard (620 µg/L) for groundwater. .

PLANNED FUTURE ACTIVITIES

Installation of six monitoring wells, and advancement of one soil boring adjacent to MW-1, is planned for the Site in the spring of 2018. The wells will be used to further assess the extent of dissolved-phase hydrocarbons and to confirm and/or further define the groundwater gradient at the Site. As part of the scope of work, replacement wells for MW-2 and MW-3 will be installed as part of the scope of work. A work plan detailing these activities has been submitted under separate cover, and the NMOCD will be notified at least 48 hours prior to the start of field activities.

Groundwater monitoring events will be conducted from the existing and new monitoring on a semi-annual basis in 2018. Groundwater samples will be collected from monitoring wells not containing free product and analyzed for BTEX constituents using EPA Method 8260. The 2018 Annual Report documenting the activities completed in 2018 will be submitted in March 2019.

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TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-1	11/04/96	5520	8880	469	3920
MW-1	02/05/97	3450	5200	214	1770
MW-1	05/07/97	4650	8440	317	2580
MW-1	11/03/09	1970	6020	359	6110
MW-1	11/08/10	571	9070	1370	27200
MW-1	11/10/11	1340	9510	1260	20800
MW-1	06/05/13	720	2200	92	4000
MW-1	09/10/13	570	1700	63	2900
MW-1	12/10/13	190	740	40	1000
MW-1	06/07/17	1400	5900	470	21000
MW-2	11/16/00	3200	330	1200	1100
MW-2	03/19/02	22	<5	150	14
MW-2	12/24/02	12.1	2.1	129	16.4
MW-2	12/15/03	10	11.7	55.3	29.7
MW-2	12/15/04	6.3	3.8	8	5.9
MW-2	12/15/05	12.1	30.9	5.6	61.9
MW-2	12/26/06	5.3	5	1.8	7.1
MW-2	12/18/07	<2	<2	<2	<6
MW-2	12/10/08	1.2	2.7	1.7	4.9
MW-2	11/03/09	0.68 J	<1	<1	1.5 J
MW-2	11/08/10	<2	<2	<2	<6
MW-2	11/10/11	1.1	<1	<1	1.4 J
MW-2	06/05/13	<0.140	<0.30	<0.20	<0.23
MW-2	09/10/13	0.22	<0.30	<0.020	<0.23
MW-2	12/10/13	0.24 J	<0.38	<0.20	<0.65
MW-2	04/04/14	0.46 J	<0.38	<0.20	<0.65
MW-2	10/22/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/28/15	0.57 J	<5.0	<1.0	<5.0
MW-2	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/14/16	<1.0	<5.0	<1.0	<5.0
MW-2 abandoned on May 22, 2016					

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Canada Mesa #2					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-3	11/16/00	880	1300	420	3700
MW-3	03/19/02	1100	29	360	3700
MW-3	12/24/02	1430	95	483	2359
MW-3	12/15/03	503 J	79.7 J	148 J	891 J
MW-3	12/15/04	410	54.9	88.7	420
MW-3	12/15/05	482	32.7	74.1	399
MW-3	12/26/06	679	78.9	106	565
MW-3	12/18/07	412	39.4	31.5	207
MW-3	12/10/08	653	63.2	55.5	253
MW-3	11/03/09	715	220	80	570
MW-3	11/08/10	426	15	22.1	85.1
MW-3	11/10/11	167	5.3	16.5	54.3
MW-3	06/05/13	340	1.3	31	47
MW-3	09/10/13	340	0.9	12	4.2 J
MW-3	12/10/13	220	13	6.3	2.6 J
MW-3	04/04/14	320	5.4 J	<0.80	<2.6
MW-3	10/22/14	240	<0.70	0.52 J	<1.6
MW-3	05/28/15	390	<25	<5.0	26
MW-3	11/21/15	380	1.5	1.3	8.8
MW-3	04/14/16	370	<25	<5.0	<25
MW-3 abandoned on May 22, 2016					

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 in an approximate value.

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

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/04/96	6503.37	34.42	33.67	0.75	6469.51
MW-1	02/05/97	6503.37	34.35	33.64	0.71	6469.55
MW-1	05/07/97	6503.37	34.24	33.61	0.63	6469.60
MW-1	01/09/00	6503.37	33.93	33.79	0.14	6469.54
MW-1	01/26/00	6503.37	35.22	35.03	0.19	6468.29
MW-1	02/15/00	6503.37	35.11	34.93	0.18	6468.39
MW-1	10/06/00	6503.37	34.11	33.82	0.29	6469.47
MW-1	11/14/00	6503.37	33.98	33.81	0.17	6469.51
MW-1	01/03/01	6503.37	33.96	33.83	0.13	6469.50
MW-1	01/15/01	6503.37	33.93	33.78	0.15	6469.55
MW-1	01/22/01	6503.37	33.81	NR		6469.56
MW-1	01/30/01	6503.37	33.83	33.82	0.01	6469.54
MW-1	02/13/01	6503.37	33.80	NR		6469.57
MW-1	02/20/01	6503.37	33.81	NR		6469.56
MW-1	02/28/01	6503.37	33.81	NR		6469.56
MW-1	06/04/01	6503.37	34.13	33.81	0.32	6469.48
MW-1	07/03/01	6503.37	34.09	33.96	0.13	6469.37
MW-1	08/06/01	6503.37	34.08	34.07	0.01	6469.29
MW-1	08/20/01	6503.37	34.10	34.09	0.01	6469.27
MW-1	08/31/01	6503.37	34.17	NR		6469.20
MW-1	09/14/01	6503.37	34.14	34.13	0.01	6469.23
MW-1	09/26/01	6503.37	34.15	34.14	0.01	6469.22
MW-1	10/02/01	6503.37	34.17	34.15	0.02	6469.21
MW-1	10/10/01	6503.37	34.18	34.16	0.02	6469.20
MW-1	12/05/01	6503.37	34.26	34.25	0.01	6469.11
MW-1	12/14/01	6503.37	34.27	NR		6469.10
MW-1	12/21/01	6503.37	34.24	NR		6469.13
MW-1	12/28/01	6503.37	34.22	NR		6469.15
MW-1	01/02/02	6503.37	34.23	NR		6469.14
MW-1	01/07/02	6503.37	34.25	34.23	0.02	6469.13
MW-1	01/23/02	6503.37	34.42	34.37	0.05	6468.98
MW-1	01/30/02	6503.37	34.51	34.50	0.01	6468.86
MW-1	02/07/02	6503.37	34.50	34.49	0.01	6468.87
MW-1	02/14/02	6503.37	34.42	34.41	0.01	6468.95
MW-1	02/20/02	6503.37	35.00	34.99	0.01	6468.37
MW-1	02/26/02	6503.37	34.25	NR		6469.12
MW-1	03/07/02	6503.37	34.25	34.24	0.01	6469.12
MW-1	03/12/02	6503.37	34.25	34.24	0.01	6469.12
MW-1	03/28/02	6503.37	34.27	NR		6469.10
MW-1	04/03/02	6503.37	34.26	NR		6469.11
MW-1	04/25/02	6503.37	34.45	NR		6468.92
MW-1	05/21/02	6503.37	34.30	NR		6469.07

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	06/10/02	6503.37	34.32	NR		6469.05
MW-1	09/23/02	6503.37	34.50	NR		6468.87
MW-1	03/25/03	6503.37	34.50	ND		6468.87
MW-1	06/22/03	6503.37	34.55	34.48	0.07	6468.87
MW-1	09/15/03	6503.37	34.97	34.65	0.32	6468.64
MW-1	12/15/03	6503.37	34.98	34.41	0.57	6468.81
MW-1	03/17/04	6503.37	34.80	34.24	0.56	6468.99
MW-1	03/22/04	6503.37	34.49	34.29	0.20	6469.03
MW-1	06/03/04	6503.37	34.44	34.30	0.14	6469.03
MW-1	06/04/04	6503.37	34.30	34.20	0.10	6469.14
MW-1	09/13/04	6503.37	35.30	34.64	0.66	6468.56
MW-1	09/14/04	6503.37	34.95	34.65	0.30	6468.64
MW-1	12/15/04	6503.37	35.32	34.74	0.58	6468.48
MW-1	03/22/05	6503.37	35.01	34.36	0.65	6468.84
MW-1	06/24/05	6503.37	34.97	34.39	0.58	6468.83
MW-1	09/14/05	6503.37	35.65	34.60	1.05	6468.50
MW-1	12/14/05	6503.37	35.05	34.74	0.31	6468.55
MW-1	03/28/06	6503.37	35.14	34.59	0.55	6468.64
MW-1	06/07/06	6503.37	35.11	34.52	0.59	6468.70
MW-1	09/29/06	6503.37	35.14	34.85	0.29	6468.44
MW-1	12/26/06	6503.37	34.85	34.44	0.41	6468.82
MW-1	03/26/07	6503.37	34.60	34.35	0.25	6468.95
MW-1	06/13/07	6503.37	35.39	34.20	1.19	6468.87
MW-1	09/28/07	6503.37	35.12	34.86	0.26	6468.44
MW-1	12/18/07	6503.37	34.34	34.18	0.16	6469.15
MW-1	03/05/08	6503.37	34.17	34.15	0.02	6469.21
MW-1	06/16/08	6503.37	34.17	ND		6469.20
MW-1	09/10/08	6503.37	34.35	ND		6469.02
MW-1	12/10/08	6503.37	34.30	ND		6469.07
MW-1	03/02/09	6503.37	34.22	ND		6469.15
MW-1	06/10/09	6503.37	35.14	ND		6468.23
MW-1	08/25/09	6503.37	34.50	ND		6468.87
MW-1	11/03/09	6503.37	34.57	ND		6468.80
MW-1	02/16/10	6503.37	34.57	34.54	0.03	6468.82
MW-1	06/02/10	6503.37	34.58	34.34	0.24	6468.97
MW-1	09/27/10	6503.37	35.26	34.71	0.55	6468.52
MW-1	11/08/10	6503.37	34.98	34.73	0.25	6468.57
MW-1	02/01/11	6503.37	34.97	34.63	0.34	6468.65
MW-1	05/02/11	6503.37	35.52	ND		6467.85
MW-1	09/23/11	6503.37	35.40	34.93	0.47	6468.32
MW-1	11/10/11	6503.37	35.21	34.95	0.26	6468.35
MW-1	02/22/12	6503.37	34.98	ND		6468.39

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-1	05/15/12	6503.37	35.04	ND		6468.33
MW-1	06/05/13	6503.37	39.13	ND		6464.24
MW-1	09/10/13	6503.37	36.50	ND		6466.87
MW-1	12/10/13	6503.37	35.45	35.35	0.10	6467.99
MW-1	04/04/14	6503.37	35.78	35.00	0.78	6468.17
MW-1	10/22/14	6503.37	36.25	35.37	0.88	6467.78
MW-1	05/28/15	6503.37	35.42	34.80	0.62	6468.41
MW-1	11/21/15	6503.37	35.55	35.01	0.54	6468.22
MW-1	04/14/16	6503.37	35.17	34.74	0.43	6468.52
MW-1	05/23/16	6503.37	34.77	ND		6468.60
MW-1	06/17/16	6503.37	NM	NM		NM
MW-1	07/17/16	6503.37	NM	NM		NM
MW-1	08/19/16	6503.37	NM	NM		NM
MW-1	09/24/16	6503.37	NM	NM		NM
MW-1	10/13/16	6503.37	35.41	35.32	0.09	6468.02
MW-1	11/15/16	6503.37	36.50	36.49	0.01	6466.87
MW-1	12/14/16	6503.37	36.40	36.37	0.03	6466.99
MW-1	06/07/17	6503.37	34.90	ND		6468.47
MW-1	11/14/17	6503.37	35.50	35.41	0.09	6467.93

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	11/16/00	6504.34	34.90	NR		6469.44
MW-2	06/04/01	6504.34	34.97	NR		6469.37
MW-2	07/03/01	6504.34	35.07	NR		6469.27
MW-2	08/06/01	6504.34	35.14	NR		6469.20
MW-2	08/31/01	6504.34	35.19	NR		6469.15
MW-2	09/14/01	6504.34	35.21	NR		6469.13
MW-2	03/19/02	6504.34	35.36	NR		6468.98
MW-2	12/24/02	6504.34	35.52	NR		6468.82
MW-2	03/25/03	6504.34	35.54	ND		6468.80
MW-2	06/22/03	6504.34	35.60	ND		6468.74
MW-2	09/15/03	6504.34	35.60	ND		6468.74
MW-2	12/15/03	6504.34	35.63	ND		6468.71
MW-2	03/22/04	6504.34	35.41	ND		6468.93
MW-2	06/04/04	6504.34	35.31	ND		6469.03
MW-2	09/14/04	6504.34	35.80	ND		6468.54
MW-2	12/15/04	6504.34	35.79	ND		6468.55
MW-2	03/22/05	6504.34	35.63	ND		6468.71
MW-2	06/24/05	6504.34	35.60	ND		6468.74
MW-2	09/14/05	6504.34	35.92	ND		6468.42
MW-2	12/14/05	6504.34	35.85	ND		6468.49
MW-2	12/15/05	6504.34	35.85	ND		6468.49
MW-2	03/28/06	6504.34	35.73	ND		6468.61
MW-2	06/07/06	6504.34	35.73	ND		6468.61
MW-2	09/29/06	6504.34	35.91	ND		6468.43
MW-2	12/26/06	6504.34	35.63	ND		6468.71
MW-2	03/26/07	6504.34	35.41	ND		6468.93
MW-2	06/13/07	6504.34	35.32	ND		6469.02
MW-2	09/28/07	6504.34	35.93	ND		6468.41
MW-2	12/18/07	6504.34	35.32	ND		6469.02
MW-2	03/05/08	6504.34	35.22	ND		6469.12
MW-2	06/16/08	6504.34	35.15	ND		6469.19
MW-2	09/10/08	6504.34	35.45	ND		6468.89
MW-2	12/10/08	6504.34	35.37	ND		6468.97
MW-2	03/02/09	6504.34	35.27	ND		6469.07
MW-2	06/10/09	6504.34	35.23	ND		6469.11
MW-2	08/25/09	6504.34	35.58	ND		6468.76
MW-2	11/03/09	6504.34	35.65	ND		6468.69
MW-2	02/16/10	6504.34	35.65	ND		6468.69
MW-2	06/02/10	6504.34	35.48	ND		6468.86
MW-2	09/27/10	6504.34	35.85	ND		6468.49
MW-2	11/08/10	6504.34	35.85	ND		6468.49
MW-2	02/01/11	6504.34	35.75	ND		6468.59

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-2	09/23/11	6504.34	36.07	ND		6468.27
MW-2	11/10/11	6504.34	36.08	ND		6468.26
MW-2	02/22/12	6504.34	36.97	ND		6467.37
MW-2	05/15/12	6504.34	36.10	ND		6468.24
MW-2	06/05/13	6504.34	36.18	ND		6468.16
MW-2	09/10/13	6504.34	36.58	ND		6467.76
MW-2	12/10/13	6504.34	36.44	ND		6467.90
MW-2	04/04/14	6504.34	35.25	ND		6469.09
MW-2	10/22/14	6504.34	36.65	ND		6467.69
MW-2	05/28/15	6504.34	36.02	ND		6468.32
MW-2	11/21/15	6504.34	36.20	ND		6468.14
MW-2	04/14/16	6504.34	35.91	ND		6468.43
MW-2 abandoned on May 22, 2016						

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	Date	TOC	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	11/16/00	6503.67	34.46	NR		6469.21
MW-3	06/04/01	6503.67	34.64	NR		6469.03
MW-3	07/03/01	6503.67	34.66	NR		6469.01
MW-3	08/06/01	6503.67	34.74	NR		6468.93
MW-3	08/31/01	6503.67	34.79	NR		6468.88
MW-3	09/14/01	6503.67	34.81	NR		6468.86
MW-3	03/19/02	6503.67	34.92	NR		6468.75
MW-3	06/10/02	6503.67	34.98	NR		6468.69
MW-3	09/23/02	6503.67	35.11	NR		6468.56
MW-3	12/24/02	6503.67	35.15	NR		6468.52
MW-3	03/25/03	6503.67	35.12	ND		6468.55
MW-3	06/22/03	6503.67	35.17	ND		6468.50
MW-3	09/15/03	6503.67	35.41	ND		6468.26
MW-3	12/15/03	6503.67	35.17	ND		6468.50
MW-3	03/22/04	6503.67	34.95	ND		6468.72
MW-3	06/04/04	6503.67	34.88	ND		6468.79
MW-3	09/14/04	6503.67	35.39	ND		6468.28
MW-3	12/15/04	6503.67	35.17	ND		6468.50
MW-3	03/22/05	6503.67	35.17	ND		6468.50
MW-3	06/24/05	6503.67	35.21	ND		6468.46
MW-3	09/14/05	6503.67	35.51	ND		6468.16
MW-3	12/15/05	6503.67	35.40	ND		6468.27
MW-3	03/28/06	6503.67	35.27	ND		6468.40
MW-3	06/07/06	6503.67	35.32	ND		6468.35
MW-3	09/29/06	6503.67	35.47	ND		6468.20
MW-3	12/26/06	6503.67	35.16	ND		6468.51
MW-3	03/26/07	6503.67	34.96	ND		6468.71
MW-3	06/13/07	6503.67	34.88	ND		6468.79
MW-3	09/28/07	6503.67	35.51	ND		6468.16
MW-3	12/18/07	6503.67	34.88	ND		6468.79
MW-3	03/05/08	6503.67	34.79	ND		6468.88
MW-3	06/16/08	6503.67	34.75	ND		6468.92
MW-3	09/10/08	6503.67	35.13	ND		6468.54
MW-3	12/10/08	6503.67	34.95	ND		6468.72
MW-3	03/02/09	6503.67	34.83	ND		6468.84
MW-3	06/10/09	6503.67	34.83	ND		6468.84
MW-3	08/25/09	6503.67	35.18	ND		6468.49
MW-3	11/03/09	6503.67	35.23	ND		6468.44
MW-3	02/16/10	6503.67	35.23	ND		6468.44
MW-3	06/02/10	6503.67	35.05	ND		6468.62
MW-3	09/27/10	6503.67	35.43	ND		6468.24
MW-3	11/08/10	6503.67	35.43	ND		6468.24

TABLE 2- GROUNDWATER ELEVATION RESULTS

Canada Mesa #2						
Location	**Date**	**TOC**	**Depth to Water (ft.)**	**Depth to LNAPL (ft.)**	**LNAPL Thickness (ft.)**	**GW Elevation (ft.)**
MW-3	02/01/11	6503.67	35.31	ND		6468.36
MW-3	09/23/11	6503.67	35.70	ND		6467.97
MW-3	11/10/11	6503.67	35.66	ND		6468.01
MW-3	02/22/12	6503.67	35.60	ND		6468.07
MW-3	05/15/12	6503.67	35.67	ND		6468.00
MW-3	06/05/13	6503.67	35.79	ND		6467.88
MW-3	09/10/13	6503.67	36.20	ND		6467.47
MW-3	12/10/13	6503.67	36.00	ND		6467.67
MW-3	04/04/14	6503.67	35.81	ND		6467.86
MW-3	10/22/14	6503.67	36.20	ND		6467.47
MW-3	05/28/15	6503.67	35.55	ND		6468.12
MW-3	11/21/15	6503.67	35.74	ND		6467.93
MW-3	04/14/16	6503.67	35.46	ND		6468.21
MW-3 abandoned on May 22, 2016						

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
"NM" = Not Measured (Free Product thickness determined from bailer thickness)

FIGURES

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2017 MAPS\Canada_Mesa#2_GARM_1SA_2017.mxd

FORMER TANK
FORMER BERM
FORMER LINE PIT
FORMER DEHYDRATOR
FORMER CANADA MESA #2 WELLHEAD
SMA BENCHMARK
ELEV 6499.73'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL
FORMER PUMP JACK
FORMER UNLINED PIT
MW-2
FORMER METER HOUSE
MW-3
MW-1
B: 1400
T: 5900
E: 470
X: 21000
FORMER EPC PIT EXCAVTED TO APPROXIMATELY 12 FEET DEEP
FORMER UNLINED PIT
GAS
6503
6504
6505
6509
6513
6512
6510
6508
6507
6506
6502
6498
6497
6499
6500
6501
6496
6495
6493
6492

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 6/24/2014

LEGEND:

- 6503 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- SMA BENCHMARK
- ABANDONED MONITORING WELL

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER

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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	7/6/2017	SLG	SLG	SRV

TITLE:
GROUNDWATER ANALYTICAL RESULTS
JUNE 7, 2017

PROJECT:
CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 1

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2017 MAPS\Canada_Mesa#2_GECM_1SA_2017.mxd

LEGEND:

- 6503 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- NATURAL GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- SMA BENCHMARK
- ABANDONED MONITORING WELL

NOTES:

6054.71 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/6/2017	SLG	SLG	SRV

TITLE:

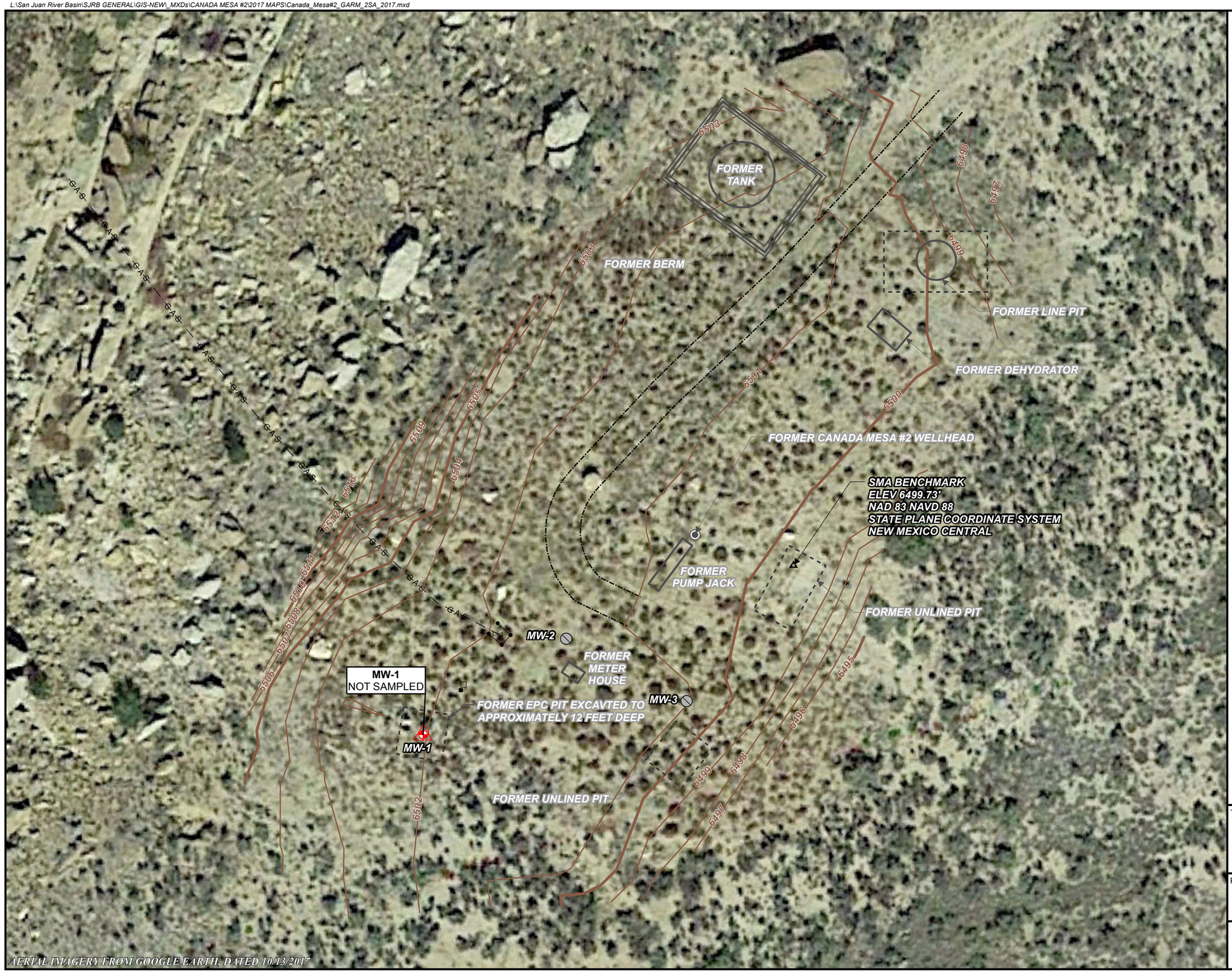
GROUNDWATER ELEVATION MAP
JUNE 7, 2017

PROJECT: **CANADA MESA #2**
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 2

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2017 MAPS\Canada_Mesa#2_GARM_2SA_2017.mxd



LEGEND:

6503 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET

ACCESS ROAD

GAS NATURAL GAS LINE

◉ FORMER WELLHEAD

MONITORING WELL WITH MEASUREABLE FREE PRODUCT

△ SMA BENCHMARK

⊘ ABANDONED MONITORING WELL

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER

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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2/12/2018	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 14, 2017

PROJECT:
CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.:
3

L:\San Juan River Basin\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2017 MAPS\Canada_Mesa#2_GECM_2SA_2017.mxd

FORMER TANK

FORMER BERM

FORMER LINE PIT

FORMER DEHYDRATOR

6505

6500

FORMER CANADA MESA #2 WELLHEAD

SMA BENCHMARK
ELEV 6499.73'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

FORMER PUMP JACK

FORMER UNLINED PIT

6510

6495

MW-2

FORMER METER HOUSE

MW-3

MW-1
6467.93

MW-1

FORMER EPC PIT EXCAVTED TO APPROXIMATELY 12 FEET DEEP

FORMER UNLINED PIT

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/13/2017

LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- G A S — NATURAL GAS LINE
- FORMER WELLHEAD
- MONITORING WELL
- SMA BENCHMARK
- ABANDONED MONITORING WELL

NOTES:

6054.71 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/12/2018	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 14, 2017

PROJECT:

CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 4

APPENDICES

APPENDIX A – NOTIFICATIONS OF SAMPLING ACTIVITIES

APPENDIX B – WASTE DISPOSAL DOCUMENTATION

APPENDIX C – JUNE 7, 2017 GROUNDWATER SAMPLING ANALYTICAL REPORT

APPENDIX A

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

Hi Randy –

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

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

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

Thank you,
Steve

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

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

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

Hi Randy –

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

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

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

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

Thank you,
Steve

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

APPENDIX B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 687962
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 6-8-17

GENERATOR: El PASO

HAULING CO. [illegible] consulting

ORDERED BY: Joseph Wiley

DEL. TKT#.

BILL TO: El Paso

DRIVER: Sarah Gardner
(Print Full Name)

CODES:

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

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	01	Jones FB #1E	1	750			750 '17 JUN 8	4:13PM
2		State Gas Com #1 Canyon Mesa #2						
3		Milestead 1A Fields A #2A						
4		Lindreth B #24 Hammond #41A						
5		Knight #1 K721D072						

I, Sarah Gardner 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.

☐ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

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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. 700071

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

DATE 11-14-17

DEL. TKT#.

GENERATOR: El Paso

BILL TO: El Paso

HAULING CO. Stantec

DRIVER: Sam Spring
(Print Full Name)

ORDERED BY: Joseph Wiley

CODES:

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

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	1	Fogelson 4-1	1	75			75 17 NOV 14	2:31 pm
2		~~State Gas Com~~, Knight JF Bell, ~~Lat L-40~~, ~~Std Oil Com~~						
3		~~Sandoval~~, GCU 124E ~~J Fed 4~~, ~~J Fed 6~~						
4		Fields A7A, GCU 142E Fogelson, Canada Mesa, K-27						
5		Miles Fed						

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.

☑ Approved ☐ Denied ATTENDANT SIGNATURE _____

san juan reproduction 168-6

APPENDIX C

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 400-139053-1
Client Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

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

Attn: Ms. Sarah Gardner

Madonna Myers

Authorized for release by:
6/22/2017 11:00:39 AM
Madonna Myers, Project Manager II
(615)796-1870
madonna.myers@testamericainc.com

Designee for

Carol Webb, Project Manager II
(850)471-6250
carol.webb@testamericainc.com

Table of Contents

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
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

Job ID: 400-139053-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-139053-1

Comments
No additional comments.

Receipt
The samples were received on 6/9/2017 11:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 3.1º C.

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

Client Sample ID: MW-1 — Lab Sample ID: 400-139053-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1400		50		ug/L	50		8021B	Total/NA
Ethylbenzene	470		50		ug/L	50		8021B	Total/NA
Toluene	5900		250		ug/L	50		8021B	Total/NA
Xylenes, Total	21000		250		ug/L	50		8021B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-139053-2

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139053-1	MW-1	Water	06/07/17 11:40	06/09/17 11:11
400-139053-2	TRIP BLANK	Water	06/07/17 11:35	06/09/17 11:11

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

Client Sample ID: MW-1
Date Collected: 06/07/17 11:40
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139053-1
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		50		ug/L			06/14/17 02:05	50
Ethylbenzene	470		50		ug/L			06/14/17 02:05	50
Toluene	5900		250		ug/L			06/14/17 02:05	50
Xylenes, Total	21000		250		ug/L			06/14/17 02:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*106*		*78 - 124*		*06/14/17 02:05*	*50*

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

Client Sample ID: TRIP BLANK
Date Collected: 06/07/17 11:35
Date Received: 06/09/17 11:11

Lab Sample ID: 400-139053-2
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/14/17 01:04	1
Ethylbenzene	<1.0		1.0		ug/L			06/14/17 01:04	1
Toluene	<5.0		5.0		ug/L			06/14/17 01:04	1
Xylenes, Total	<5.0		5.0		ug/L			06/14/17 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*109*		*78 - 124*		*06/14/17 01:04*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

GC VOA

Analysis Batch: 356821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139053-1	MW-1	Total/NA	Water	8021B	
400-139053-2	TRIP BLANK	Total/NA	Water	8021B	
MB 400-356821/4	Method Blank	Total/NA	Water	8021B	
LCS 400-356821/1003	Lab Control Sample	Total/NA	Water	8021B	
400-139059-A-5 MS	Matrix Spike	Total/NA	Water	8021B	
400-139059-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-356821/4
Matrix: Water
Analysis Batch: 356821

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/13/17 18:26	1
Ethylbenzene	<1.0		1.0		ug/L			06/13/17 18:26	1
Toluene	<5.0		5.0		ug/L			06/13/17 18:26	1
Xylenes, Total	<5.0		5.0		ug/L			06/13/17 18:26	1

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

Lab Sample ID: LCS 400-356821/1003
Matrix: Water
Analysis Batch: 356821

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	46.1		ug/L		92	85 - 115		
Ethylbenzene			50.0	46.5		ug/L		93	85 - 115		
Toluene			50.0	45.4		ug/L		91	85 - 115		
Xylenes, Total			150	141		ug/L		94	85 - 115		

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

Lab Sample ID: 400-139059-A-5 MS
Matrix: Water
Analysis Batch: 356821

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

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

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

Lab Sample ID: 400-139059-A-5 MSD
Matrix: Water
Analysis Batch: 356821

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	57.7		ug/L		115	44 - 150	4	16
Ethylbenzene	<1.0		50.0	58.4		ug/L		117	70 - 142	3	16
Toluene	<5.0		50.0	56.9		ug/L		114	69 - 136	3	16
Xylenes, Total	<5.0		150	178		ug/L		118	68 - 142	3	15

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

Client Sample ID: MW-1

Lab Sample ID: 400-139053-1

Date Collected: 06/07/17 11:40

Matrix: Water

Date Received: 06/09/17 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		50	5 mL	5 mL	356821	06/14/17 02:05	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Client Sample ID: TRIP BLANK

Lab Sample ID: 400-139053-2

Date Collected: 06/07/17 11:35

Matrix: Water

Date Received: 06/09/17 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	356821	06/14/17 01:04	MKA	TAL PEN
	Instrument ID: CH_PAULA									

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
TestAmerica Job ID: 400-139053-1
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company, LLC - Canada Mesa #2

TestAmerica Job ID: 400-139053-1

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

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: S. Gardner / J. Garvey	Lab PM: Webb, Carol M	Carrier Tracking No(s):	COC No: 400-65854-26930.1
Client Contact: Ms. Sarah Gardner	Phone: 303 291 2239	E-Mail: carol.webb@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Services Inc				Job #:
Address: 1560 Broadway Suite 1800	Due Date Requested:			
City: Denver	TAT Requested (days): Standard			
State, Zip: CO, 80202				
Phone: 303-291-2239(Tel)	PO #: Purchase Order Requested			
Email: sarah.gardner@mwhglobal.com	WO #:			
Project Name: Canada Mesa #2	Project #: 40005479			
Site: Canada Mesa #2	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

400-139053 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX 8021	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-1	June 7, 2017	1140	G	W			2	2	
Trip Blank	June 7, 2017	1135	G	W			2	2	

Possible Hazard Identification
☐ 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 ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sarah Gardner	6/8/2017 845	Stantec			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				6-9-17 1111	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.1°C, 2.7°C IR2

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-139053-1

Login Number: 139053

List Source: TestAmerica Pensacola

List Number: 1

Creator: Johnson, Jeremy N

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1°C 2.7°C IR2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	