

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
GW01	1/16/2009	1100	13000	880	21000	14	NA
GW02	2/5/2009	2600	3100	220	3600	14	NA
MW01	4/21/2009	66	460	160	1900	16.45	80.97
	7/10/2009	3.5	<1.0	4.6	71	15.53	81.89
	10/20/2009	3.8	<1.0	3.7	56	14.15	83.27
	1/26/2010	12	<1.0	9.3	110	13.36	84.06
	4/9/2010	19	<1.0	<1.0	5.0	12.32	85.10
	7/16/2010	19	<1.0	8.2	24	10.83	86.59
	10/8/2010	19	<1.0	19	25	11.33	86.09
	1/26/2011	65	<1.0	22	29	11.67	85.75
	4/14/2011	2.0	<1.0	<1.0	<1.0	11.20	86.22
	7/28/2011	14	<1.0	2.9	2.0	10.62	86.80
	10/19/2011	11	<1.0	<1.0	<1.0	11.28	86.18
	1/19/2012	32	<1.0	<1.0	<1.0	11.12	86.30
	4/10/2012	190	<1.0	35	87	10.42	87.00
	7/19/2012	<1.0	<1.0	<1.0	<1.0	12.07	85.35
	10/3/2012	9.7	<1.0	<1.0	<1.0	11.97	85.45
	1/20/2013	14	<1.0	1.8	3.1	12.04	85.38
	4/17/2013	13	<1.0	42	160	10.86	86.56
	7/31/2013	1.1	<1.0	4.2	73	12.67	84.75
	10/11/2013	<1.0	<1.0	1.5	13	11.82	85.60
	12/2/2013	Surveyed - Not Sampled				10.96	86.12
	1/16/2014	11.0	<4.0	54.6	149	11.17	86.25
	4/3/2014	4.8	<1.0	21.4	42.8	10.02	87.06
	7/25/2014	<1.0	<1.0	<1.0	<1.0	8.75	88.33
	10/14/2014	<1.0	<1.0	1.4	<1.0	8.81	88.27
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.02	89.06
	4/20/2015	<1.0	<1.0	<1.0	<1.0	7.62	89.46
	7/28/2015	4.2	<1.0	4.8	<1.0	6.73	90.35
	10/19/2015	1.7	<1.0	<1.0	<1.0	7.44	89.64
	1/22/2016	1.2	<1.0	<1.0	<1.0	7.22	89.86
	4/19/2016	<1.0	<1.0	<1.0	<1.0	4.54	92.54
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.64	91.44
	10/24/2016	<1.00	<1.00	<1.00	<1.00	6.76	90.32
	1/23/2017	<4.00	<4.00	<4.00	<4.00	6.66	90.42



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.22	90.86
	7/21/2017	<1.00	<1.00	<1.00	<1.00	6.53	90.55
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.10	88.98
	1/4/2018	<1.00	<1.00	<1.00	<1.00	7.58	89.50
	5/31/2018	<1.00	<1.00	<1.00	<1.00	6.97	90.11
MW02	4/21/2009	250	1300	310	3300	17.74	81.08
	7/10/2009	40	250	47	550	16.84	81.98
	10/20/2009	180	580	110	1700	15.46	83.36
	1/26/2010	42	160	51	1400	14.79	84.03
	4/9/2010	3.6	28	8.1	160	13.64	85.18
	7/16/2010	2.8	<1.0	<1.0	3.7	12.10	86.72
	10/8/2010	130	16	51	260	12.65	86.17
	1/26/2011	150	160	180	2000	12.96	85.86
	4/14/2011	2.5	<1.0	5.2	35	12.58	86.24
	7/28/2011	250	1.5	120	15	11.98	86.84
	10/19/2011	8.5	21	31	330	12.60	86.22
	1/19/2012	4.7	<1.0	4.9	9.5	12.49	86.33
	4/10/2012	7.3	<1.0	1.0	<1.0	11.66	87.16
	7/19/2012	510	1400	940	15000	12.91	85.91
	10/3/2012	7.9	11	120	1400	13.26	85.56
	1/20/2013	9.6	<1.0	<1.0	4.2	13.37	85.45
	4/17/2013	<1.0	<1.0	<1.0	<1.0	12.41	86.41
	7/31/2013	170	170	340	4600	13.76	85.06
	10/11/2013	<1.0	<1.0	4.9	100	13.12	85.70
	12/2/2013	Surveyed - Not Sampled				12.67	86.17
	1/16/2014	<4.0	<4.0	<4.0	<4.0	12.55	86.27
	4/3/2014	<1.0	<1.0	<1.0	<1.0	11.70	87.14
	7/25/2014	<1.0	<1.0	<1.0	<1.0	10.54	88.30
	10/14/2014	1.1	<1.0	7.5	77.2	10.43	88.41
	1/13/2015	<1.0	<1.0	<1.0	<1.0	9.86	88.98
	4/20/2015	<1.0	<1.0	<1.0	<1.0	9.44	89.40
	7/28/2015	<1.0	<1.0	<1.0	<1.0	8.49	90.35
	10/19/2015	<1.0	<1.0	<1.0	<1.0	9.17	89.67
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.76	90.08
	4/19/2016	<1.0	<1.0	<1.0	<1.0	7.40	91.44
	7/12/2016	<1.00	<1.00	<1.00	<1.00	7.36	91.48



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	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.54	90.30
	1/23/2017	<1.00	<1.00	<1.00	<1.00	8.44	90.40
	4/26/2017	<1.00	<1.00	<1.00	<1.00	7.94	90.90
	7/21/2017	<1.00	<1.00	<1.00	2.04	8.43	90.41
	10/30/2017	<1.00	<1.00	<1.00	<1.00	9.83	89.01
	1/4/2018	<1.00	<1.00	<1.00	<1.00	9.31	89.53
	5/31/2018	<1.00	<1.00	<1.00	<1.00	8.87	89.97
MW03	4/21/2009	45	80	360	3200	16.80	NA
	7/10/2009	35	7.8	87	1100	15.95	NA
	10/20/2009	<1.0	<1.0	12	81	14.64	NA
	1/26/2010	Not Found - Not Sampled				NM	NA
	4/9/2010	<1.0	<1.0	24	170	12.55	NA
	7/16/2010	1.6	<1.0	8.0	170	10.99	NA
	10/8/2010	210	1.1	64	250	11.18	NA
	1/26/2011	51	16	49	280	11.52	NA
	4/14/2011	14	<1.0	58	680	11.16	NA
	7/28/2011	44	<1.0	23	53	10.52	NA
	10/19/2011	Not Found - Not Sampled				Not Found	NA
	MW03 destroyed as of 4/10/2012						
MW04	4/21/2009	62	21	130	810	17.03	80.58
	7/10/2009	3.6	<1.0	13	50	16.15	81.46
	10/20/2009	1.6	<1.0	2.3	6.2	14.78	82.83
	1/26/2010	3.8	<1.0	<1.0	<1.0	14.01	83.60
	4/9/2010	3.5	<1.0	<1.0	<1.0	12.92	84.69
	7/16/2010	2.1	<1.0	<1.0	<1.0	11.40	86.21
	10/8/2010	14	<1.0	<1.0	<1.0	11.91	85.70
	1/26/2011	2.4	<1.0	<1.0	2.5	12.18	85.43
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.87	85.74
	7/28/2011	<1.0	<1.0	<1.0	<1.0	11.24	86.37
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.83	85.78
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.68	85.93
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.75	86.86
	7/19/2012	1.7	<1.0	<1.0	<1.0	12.00	85.61
	10/3/2012	<1.0	<1.0	<1.0	<1.0	12.32	85.29
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.45	85.16



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	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.44	86.17
	7/31/2013	<1.0	<1.0	<1.0	170	12.98	84.63
	10/11/2013	1.2	<1.0	<1.0	<1.0	12.10	85.51
	12/2/2013	Surveyed - Not Sampled				11.27	85.97
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.61	86.00
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.36	86.88
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.20	88.04
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.08	88.16
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.53	88.71
	4/20/2015	1.4	<1.0	<1.0	<1.0	8.16	89.08
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.09	90.15
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.78	89.46
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.42	89.82
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.08	91.16
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.94	91.30
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.09	90.15
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.04	90.20
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.52	90.72
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.07	90.17
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.43	88.81
	1/4/2018	<1.00	<1.00	<1.00	<1.00	7.90	89.34
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.50	89.74
MW05	4/21/2009	250	180	190	200	17.18	80.81
	7/10/2009	6.8	4.5	150	1800	16.33	81.66
	10/20/2009	69	21	130	1400	14.63	83.04
	1/26/2010	18	<1.0	40	730	14.23	83.76
	4/9/2010	12	<1.0	14	76	13.12	84.87
	7/16/2010	6.0	<1.0	10	45	11.64	86.35
	10/8/2010	1100	<1.0	190	1300	12.12	85.87
	1/26/2011	3.6	<1.0	<1.0	4.3	12.38	85.61
	4/14/2011	2.4	<1.0	<1.0	<1.0	12.05	85.94
	7/28/2011	17	<1.0	8.9	31	11.41	86.58
	10/19/2011	3.6	<1.0	2.6	4.7	12.01	85.98
	1/19/2012	130	<1.0	<1.0	<1.0	11.87	86.12
	4/10/2012	12	<1.0	<1.0	<1.0	11.12	86.87
	7/19/2012	4.7	<1.0	<1.0	<1.0	12.47	85.52



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	10/3/2012	140	<1.0	5.9	120	12.62	85.37
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.70	85.29
	4/17/2013	<1.0	<1.0	4.4	60	11.77	86.22
	7/31/2013	<1.0	<1.0	<1.0	320	13.19	84.80
	10/11/2013	<1.0	<1.0	<1.0	<1.0	10.76	87.23
	12/2/2013	Surveyed - Not Sampled				11.22	85.98
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.91	86.08
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.29	86.91
	7/25/2014	<1.0	<1.0	<1.0	<1.0	7.58	89.62
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.05	88.15
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.18	89.02
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.04	89.16
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.08	90.12
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.72	89.48
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.34	89.86
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.03	91.17
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.90	91.30
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.04	90.16
	1/23/2017	<1.00	<1.00	<1.00	<1.00	6.99	90.21
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.46	90.74
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.03	90.17
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.34	88.86
	1/4/2018	<1.00	<1.00	<1.00	<1.00	7.81	89.39
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.47	89.73
MW06	1/26/2010	<1.0	<1.0	<1.0	<1.0	14.78	NA
	4/9/2010	<1.0	<1.0	<1.0	<1.0	13.60	NA
	7/16/2010	<1.0	<1.0	<1.0	<1.0	12.08	NA
	10/8/2010	<1.0	<1.0	<1.0	<1.0	12.60	NA
	1/26/2011	<1.0	<1.0	<1.0	5.6	12.94	NA
	4/14/2011	<1.0	<1.0	<1.0	<1.0	12.57	NA
	7/28/2011	<1.0	<1.0	<1.0	<1.0	11.97	NA
	10/19/2011	<1.0	<1.0	<1.0	<1.0	12.59	NA
	1/19/2012	<1.0	<1.0	<1.0	<1.0	12.36	NA
	4/10/2012	<1.0	<1.0	<1.0	<1.0	11.69	NA
	7/19/2012	<1.0	<1.0	<1.0	<1.0	13.49	NA
	10/3/2012	<1.0	<1.0	<1.0	<1.0	13.60	NA



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	1/20/2013	<1.0	<1.0	<1.0	<1.0	13.72	NA
	4/17/2013	<1.0	<1.0	<1.0	<1.0	PVC Broken	NA
	7/31/2013	Damaged - Not Sampled				Damaged	NA
	MW06 destroyed as of 10/11/2013						
MW07	1/26/2010	2600	7800	6400	62000	14.04	83.85
	4/9/2010	50	200	680	4700	12.91	84.98
	7/16/2010	25	140	600	5200	11.37	86.52
	10/8/2010	12	30	240	1900	11.93	85.96
	1/26/2011	73	30	180	1800	12.26	85.63
	4/14/2011	69	120	240	1500	11.89	86.00
	7/28/2011	120	<1.0	200	400	11.27	86.62
	10/19/2011	80	<1.0	100	150	11.87	86.02
	1/19/2012	190	24	280	1400	11.65	86.24
	4/10/2012	82	5.8	300	1500	10.96	86.93
	7/19/2012	85	93	14	120	12.60	85.29
	10/3/2012	220	320	200	1100	13.05	84.84
	1/20/2013	27	<1.0	61	230	13.15	84.74
	4/17/2013	120	34	200	1300	11.50	86.39
	7/31/2013	8.9	<1.0	4.6	19	13.05	84.84
	10/11/2013	38	5.5	150	610	12.40	85.49
	12/2/2013	Surveyed - Not Sampled				12.09	85.91
	1/16/2014	34.9	14.1	67.0	377	11.88	86.01
	4/3/2014	6.6	<1.0	56.4	210	11.14	86.86
	7/25/2014	10.5	3.1	26.0	53.0	9.94	88.06
	10/14/2014	49.0	39.0	41.4	143	9.84	88.16
	1/13/2015	13.3	<1.0	2.1	14.0	9.44	88.56
	4/20/2015	129	74.4	84.0	430	8.88	89.12
	7/28/2015	99.3	108	47.0	343	7.80	90.20
	10/19/2015	42.6	7.8	35.4	128	8.48	89.52
	1/22/2016	18.8	8.5	101	473	8.14	89.86
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.67	91.33
	7/12/2016	<1.00	<1.00	4.86	65.7	6.65	91.35
	10/24/2016	67.4	2.50	111	382	7.84	90.16
	1/23/2017	44.6	<4.00	180	670	7.27	90.23
	4/26/2017	<4.00	<4.00	108	509	6.74	90.76
	7/21/2017	<4.00	<4.00	<4.00	<4.00	7.22	90.28



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	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.66	88.84
	1/4/2018	1.97	<1.00	11.1	18.2	8.07	89.43
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.69	89.81
MW08	1/26/2010	74	62	7800	58000	14.78	83.68
	4/9/2010	47	96	550	4400	13.67	84.79
	7/16/2010	21	34	200	730	12.15	86.31
	10/8/2010	56	2.7	25	200	12.66	85.80
	1/26/2011	93	72	510	4600	12.98	85.48
	4/14/2011	4.6	3.6	280	1300	12.64	85.82
	7/28/2011	9.4	2.4	32	160	11.95	86.51
	10/19/2011	16	6.4	96	260	12.58	85.88
	1/19/2012	890	710	670	3700	12.46	86.00
	4/10/2012	160	400	500	3000	11.75	86.71
	7/19/2012	<10	<10	<10	<10	12.85	85.61
	10/3/2012	650	650	690	4400	13.65	84.81
	1/20/2013	53	<1.0	280	2400	13.77	84.69
	4/17/2013	11	<1.0	400	1400	12.36	86.10
	7/31/2013	2.3	<1.0	68	340	13.75	84.71
	10/11/2013	21	<1.0	90	270	13.08	85.38
	12/2/2013	Surveyed - Not Sampled				12.39	85.80
	1/16/2014	14.7	<4.0	256	585	12.57	85.89
	4/3/2014	2.2	<2.0	172	593	11.46	86.73
	7/25/2014	<4.0	<4.0	10.1	31.4	10.28	87.91
	10/14/2014	<1.0	<1.0	42.7	119	10.16	88.03
	1/13/2015	Frozen - Not Sampled				Frozen	NA
	4/20/2015	1.8	<1.0	26.3	20.2	9.19	89.00
	7/28/2015	27.3	<1.0	80.4	179	8.19	90.00
	10/19/2015	1.6	3.2	34.4	5.0	8.86	89.33
	1/22/2016	14.5	<1.0	37.1	137	8.52	89.67
	4/19/2016	<1.0	<1.0	2.8	5.3	7.07	91.12
	7/12/2016	1.43	<1.00	8.50	1.42	7.06	91.13
	10/24/2016	18.1	<1.00	5.22	3.55	8.18	90.01
	1/23/2017	<1.00	<1.00	<1.00	<1.00	8.11	90.08
	4/26/2017	<1.00	<1.00	<1.00	<1.00	7.60	90.59
	7/21/2017	<1.00	<1.00	<1.00	<1.00	8.13	90.06
	10/30/2017	<1.00	<1.00	<1.00	<1.00	9.47	88.72



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.96	89.23
	5/31/2018	<1.00	<1.00	<1.00	<1.00	8.18	90.01
MW09	1/26/2010	35	5.3	9400	46000	14.39	83.68
	4/9/2010	61	3.1	500	2700	13.24	84.83
	7/16/2010	42	<1.0	460	3400	11.76	86.31
	10/8/2010	87	<1.0	20	150	12.25	85.82
	1/26/2011	260	1.8	280	1800	12.53	85.54
	4/14/2011	20	1.0	280	1300	12.22	85.85
	7/28/2011	86	<1.0	25	82	11.58	86.49
	10/19/2011	93	<1.0	50	140	12.16	85.91
	1/19/2012	320	<1.0	83	90	11.86	86.21
	4/10/2012	36	<1.0	27	71	11.30	85.77
	7/19/2012	<1.0	<1.0	<1.0	<1.0	12.72	85.35
	10/3/2012	200	1.0	160	540	13.10	84.97
	1/20/2013	17	<1.0	6.7	<1.0	13.19	84.88
	4/17/2013	120	<1.0	10	3.2	12.66	85.41
	7/31/2013	33	<1.0	23	69	13.47	84.60
	10/11/2013	23	<1.0	24	59	12.68	85.39
	12/2/2013	Surveyed - Not Sampled				11.98	85.87
	1/16/2014	4.1	<4.0	10.0	11.5	12.10	85.97
	4/3/2014	<1.0	<1.0	9.8	6.6	11.07	86.78
	7/25/2014	5.9	<1.0	15.0	27.2	9.88	87.97
	10/14/2014	2.5	<1.0	20.1	24.9	9.78	88.07
	1/13/2015	2.3	<1.0	27.1	48.5	9.20	88.65
	4/20/2015	<1.0	<1.0	2.5	5.5	8.82	89.03
	7/28/2015	1.9	<1.0	5.4	13.1	7.82	90.03
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.48	89.37
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.10	89.75
	4/19/2016	<1.0	<1.0	1.8	11.2	6.79	91.06
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.68	91.17
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.82	90.03
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.66	90.19
	4/26/2017	<1.00	<1.00	<1.00	<1.00	8.23	89.62
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.80	90.05
	10/30/2017	3.29	<1.00	<1.00	8.11	9.09	88.76
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.56	89.29



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	5/31/2018	<1.00	<1.00	<1.00	<1.00	8.19	89.66
MW10	4/9/2010	530	390	740	6000	12.74	84.82
	7/16/2010	280	<1.0	500	5900	11.28	86.28
	10/8/2010	940	110	940	10000	11.75	85.81
	1/26/2011	110	<1.0	100	1900	PVC Blocked	NA
	4/14/2011	250	<1.0	1100	5800	PVC Blocked	NA
	7/28/2011	1400	3.7	1100	11000	PVC Blocked	NA
	10/19/2011	120	9.6	120	1900	PVC Blocked	NA
	1/19/2012	1400	8.1	980	5000	PVC Blocked	NA
	4/10/2012	2300	<1.0	1500	16000	PVC Blocked	NA
	7/19/2012	760	440	110	10000	PVC Blocked	NA
	10/3/2012	1300	26	950	11000	NM	NA
	1/20/2013	220	<1.0	150	3500	PVC Blocked	NA
	4/17/2013	67	<1.0	60	510	PVC Blocked	NA
	7/31/2013	230	89	460	3800	PVC Blocked	NA
	10/11/2013	150	1.3	140	1100	PVC Blocked	NA
	12/2/2013	Surveyed - Not Sampled				11.63	85.93
	1/16/2014	9.4	<4.0	11.9	20.6	Inaccessible	NA
	4/3/2014	1.2	<1.0	<1.0	<1.0	PVC Blocked	NA
	7/25/2014	4.3	<1.0	1.2	2.6	PVC Blocked	NA
	10/14/2014	2.9	<1.0	<1.0	<1.0	PVC Blocked	NA
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.89	88.67
	4/20/2015	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.53	90.03
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.14	89.42
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.81	89.75
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.46	91.10
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.32	91.24
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.45	90.11
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.37	90.19
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.90	90.66
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.47	90.09
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.78	88.78
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.26	89.30
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.89	89.67



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
MW11	4/9/2010	1200	2.1	890	7100	12.72	84.69
	7/16/2010	82	<1.0	120	1600	11.23	86.18
	10/8/2010	76	<1.0	3.5	90	11.71	85.70
	1/26/2011	210	<1.0	240	1300	11.98	85.43
	4/14/2011	10	<1.0	75	130	11.66	85.75
	7/28/2011	1.0	<1.0	1.5	34	11.03	86.38
	10/19/2011	40	<1.0	69	720	11.57	85.84
	1/19/2012	150	<1.0	150	880	11.46	85.95
	4/10/2012	23	<1.0	43	350	10.76	86.65
	7/19/2012	11	<1.0	7.7	100	12.00	85.41
	10/3/2012	130	<1.0	67	64	12.25	85.16
	1/20/2013	9.7	<1.0	<1.0	3.0	12.30	85.11
	4/17/2013	3.9	<1.0	<1.0	<1.0	11.41	86.00
	7/31/2013	2.5	<1.0	<1.0	<1.0	12.88	84.53
	10/11/2013	1.5	<1.0	<1.0	4.7	12.11	85.30
	12/2/2013	Surveyed - Not Sampled				11.64	85.77
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.55	85.86
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.74	86.67
	7/25/2014	<1.0	<1.0	1.7	7.9	9.56	87.85
	10/14/2014	<1.0	<1.0	<1.0	8.0	9.45	87.96
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.85	88.56
	4/20/2015	2.0	<1.0	<1.0	6.4	8.51	88.90
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.50	89.91
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.15	89.26
	1/22/2016	<1.0	<1.0	<1.0	8.5	7.77	89.64
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.45	90.96
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.31	91.10
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.46	89.95
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.38	90.03
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.89	90.52
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.41	90.00
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.74	88.67
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.24	89.17
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.84	89.57
MW12	4/9/2010	450	73	920	5800	12.57	84.69
	7/16/2010	200	90	680	5500	11.08	86.18



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	10/8/2010	8.9	25	63	310	11.57	85.69
	1/26/2011	420	400	440	5800	11.87	85.39
	4/14/2011	110	20	980	6400	11.54	85.72
	7/28/2011	<1.0	<1.0	<1.0	14	10.88	86.38
	10/19/2011	51	27	240	740	11.45	85.81
	1/19/2012	490	1.3	830	4500	11.34	85.92
	4/10/2012	110	3.7	1500	8500	10.60	86.66
	7/19/2012	71	6.2	160	1200	11.72	85.54
	10/3/2012	200	1.6	200	580	12.15	85.11
	1/20/2013	100	<1.0	560	1600	12.25	85.01
	4/17/2013	51	<1.0	450	1300	11.30	85.96
	7/31/2013	9.6	<1.0	130	380	12.65	84.61
	10/11/2013	6.1	<1.0	25	30	12.00	85.26
	12/2/2013	Surveyed - Not Sampled				11.52	85.72
	1/16/2014	11.9	<4.0	99.6	23.7	Frozen	NA
	4/3/2014	59.2	<1.0	147	251	10.59	86.65
	7/25/2014	1.2	<1.0	6.5	22.1	9.39	87.85
	10/14/2014	61.2	<1.0	257	550	9.29	87.95
	1/13/2015	27.7	<1.0	156	212	8.77	88.47
	4/20/2015	74.1	<1.0	243	579	8.32	88.92
	7/28/2015	92.8	<4.0	232	529	7.33	89.91
	10/19/2015	59.4	<4.0	186	276	7.98	89.26
	1/22/2016	14.2	<1.0	46.7	157	7.62	89.62
	4/19/2016	33.0	<1.0	120	263	6.25	90.99
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.19	91.05
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.32	89.92
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.23	90.01
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.78	90.46
	7/21/2017	72.3	<1.00	3.46	<1.00	7.24	90.00
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.59	88.65
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.10	89.14
	5/31/2018	25.3	<1.00	5.47	21.0	7.65	89.59
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MW13	4/9/2010	1.3	<1.0	2.0	22	12.63	84.85
	7/16/2010	<1.0	<1.0	<1.0	<1.0	11.10	86.38
	10/8/2010	<1.0	<1.0	<1.0	<1.0	11.58	85.90
	1/26/2011	<1.0	<1.0	<1.0	<1.0	11.94	85.54



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UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.62	85.86
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.97	86.51
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.52	85.96
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.47	86.01
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.62	86.86
	7/19/2012	<1.0	<1.0	<1.0	<1.0	11.77	85.71
	10/3/2012	<1.0	<1.0	<1.0	<1.0	12.22	85.26
	1/20/2013	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.43	86.05
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.66	84.82
	10/11/2013	<1.0	<1.0	<1.0	<1.0	12.12	85.36
	12/2/2013	Surveyed - Not Sampled				11.71	85.79
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.68	85.80
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.72	86.78
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.56	87.94
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.42	88.08
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.84	88.66
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.46	89.04
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.48	90.02
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.13	89.37
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.78	89.72
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.36	91.14
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.37	91.13
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.51	89.99
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.42	90.08
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.92	90.58
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.42	90.08
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.77	88.73
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.30	89.20
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.79	89.71
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MW14	4/9/2010	1.6	1.1	36	41	12.80	85.01
	7/16/2010	<1.0	<1.0	<1.0	<1.0	11.24	86.57
	10/8/2010	<1.0	<1.0	<1.0	<1.0	11.81	86.00
	1/26/2011	<1.0	<1.0	<1.0	<1.0	12.12	85.69
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.78	86.03
	7/28/2011	<1.0	<1.0	<1.0	<1.0	11.14	86.67



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GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.76	86.05
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.59	86.22
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.90	86.91
	7/19/2012	<1.0	<1.0	<1.0	<1.0	12.10	85.71
	10/3/2012	1.0	<1.0	<1.0	<1.0	12.40	85.41
	1/20/2013	3.6	<1.0	<1.0	<1.0	12.50	85.31
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.60	86.21
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.85	84.96
	10/11/2013	<1.0	<1.0	<1.0	<1.0	12.30	85.51
	12/2/2013	Surveyed - Not Sampled				11.95	85.94
	1/16/2014	Inaccessible - Not Sampled				Inaccessible	NA
	4/3/2014	<4.0	<4.0	<4.0	<4.0	PVC Blocked	NA
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.79	88.10
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.66	88.23
	1/13/2015	<1.0	<1.0	<1.0	<1.0	9.10	88.79
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.69	89.20
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.71	90.18
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.38	89.51
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.00	89.89
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.63	91.26
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.58	91.31
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.76	90.13
	1/23/2017	<1.00	<1.00	<1.00	<1.00	PVC Blocked	NA
	4/26/2017	<1.00	<1.00	<1.00	<1.00	7.16	90.73
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.64	90.25
	10/30/2017	<1.00	<1.00	<1.00	<1.00	9.05	88.84
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.54	89.35
	5/31/2018	<1.00	<1.00	<1.00	<1.00	8.04	89.85
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MW15	5/26/2010	290	1.4	880	5400	12.50	85.22
	7/16/2010	32	<1.0	520	770	11.80	86.00
	10/8/2010	17	<1.0	89	70	12.30	85.50
	1/26/2011	170	<1.0	920	2400	12.61	85.19
	4/14/2011	650	160	1100	6000	12.30	85.50
	7/28/2011	11000	150	1100	11000	11.63	86.17
	10/19/2011	420	1.3	1100	3300	12.15	85.65
	1/19/2012	390	<1.0	870	5800	12.08	85.72



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/10/2012	220	<1.0	1500	4100	10.75	87.05
	7/19/2012	200	1.2	490	4200	12.55	85.25
	10/3/2012	150	<1.0	530	3300	12.90	84.90
	1/20/2013	86	<1.0	700	71	12.98	84.82
	4/17/2013	15	<1.0	630	<1.0	12.09	85.74
	7/31/2013	12	<1.0	3.2	20	13.25	84.49
	10/11/2013	140	<1.0	210	35	12.69	84.55
	12/2/2013	Surveyed - Not Sampled				12.38	85.52
	1/16/2014	16.9	<4.0	4.8	<4.0	12.16	85.61
	4/3/2014	4.0	<1.0	<1.0	<1.0	11.44	86.46
	7/25/2014	15.8	<1.0	1.1	14.1	10.25	87.65
	10/14/2014	9.3	<1.0	<1.0	<1.0	10.13	87.77
	1/13/2015	5.6	<1.0	<1.0	<1.0	9.56	88.34
	4/20/2015	4.2	<1.0	<1.0	<1.0	9.18	88.72
	7/28/2015	4.9	<1.0	<1.0	<1.0	8.18	89.72
	10/19/2015	3.6	<1.0	<1.0	<1.0	8.81	89.09
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.45	89.45
	4/19/2016	<1.0	<1.0	<1.0	<1.0	7.10	90.80
	7/12/2016	<1.00	<1.00	<1.00	<1.00	7.04	90.86
	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.14	89.76
	1/23/2017	<1.00	<1.00	<1.00	<1.00	8.03	89.87
	4/26/2017	<1.00	<1.00	<1.00	<1.00	7.56	90.34
	7/21/2017	<1.00	<1.00	<1.00	<1.00	8.06	89.84
	10/30/2017	<1.00	<1.00	<1.00	<1.00	9.37	88.53
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.93	88.97
	5/31/2018	<1.00	<1.00	<1.00	<1.00	8.44	89.46
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MW16	5/26/2010	290	<1.0	860	1200	11.65	85.11
	7/16/2010	30	<1.0	11	37	10.87	85.93
	10/8/2010	17	<1.0	30	99	11.35	85.45
	1/26/2011	3.9	<1.0	23	22	11.61	85.19
	4/14/2011	1.9	<1.0	9.0	21	11.31	85.49
	7/28/2011	<1.0	<1.0	1.6	17	10.64	86.16
	10/19/2011	1.9	<1.0	3.4	6.6	11.15	85.65
	1/19/2012	7.4	<1.0	<1.0	<1.0	11.09	85.71
	4/10/2012	7.9	<1.0	9.6	29	10.41	86.39
	7/19/2012	<1.0	<1.0	<1.0	<1.0	11.56	85.24



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	10/3/2012	47	<1.0	<1.0	<1.0	11.96	84.84
	1/20/2013	9.5	<1.0	5.1	18	12.03	84.77
	4/17/2013	5.6	<1.0	3.4	18	11.07	85.73
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.41	84.39
	10/11/2013	19	<1.0	12	27	11.71	85.09
	12/2/2013	Surveyed - Not Sampled				11.34	85.53
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.18	85.62
	4/3/2014	7.4	<1.0	4.4	<1.0	10.40	86.47
	7/25/2014	8.6	<1.0	3.0	<1.0	9.25	87.62
	10/14/2014	14.5	<1.0	2.4	<1.0	9.15	87.72
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.52	88.35
	4/20/2015	9.0	<1.0	22.2	41.7	8.19	88.68
	7/28/2015	3.9	<1.0	5.1	5.7	7.34	89.53
	10/19/2015	2.2	<1.0	<1.0	<1.0	7.83	89.04
	1/22/2016	4.7	<1.0	1.7	22.6	7.47	89.40
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.12	90.75
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.99	90.88
	10/24/2016	<1.00	<1.00	<1.00	<1.00	6.78	90.09
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.03	89.84
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.55	90.32
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.07	89.80
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.38	88.49
	1/4/2018	<1.00	<1.00	<1.00	<1.00	7.91	88.96
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.51	89.36
MW17	5/26/2010	110	<1.0	84	250	11.66	85.17
	7/16/2010	8.4	<1.0	20	<1.0	10.92	85.96
	10/8/2010	<1.0	<1.0	<1.0	<1.0	11.36	85.52
	1/26/2011	<1.0	<1.0	<1.0	<1.0	11.63	85.25
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.31	85.57
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.67	86.21
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.17	85.71
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.09	85.79
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.42	86.46
	7/19/2012	<1.0	<1.0	<1.0	<1.0	11.66	85.22
	10/3/2012	4.6	<1.0	2.2	4.2	11.97	84.91
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.07	84.81



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.03	85.85
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.47	84.41
	10/11/2013	<1.0	<1.0	<1.0	<1.0	11.70	85.18
	12/2/2013	Surveyed - Not Sampled				11.30	85.61
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.16	85.72
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.40	86.51
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.20	87.71
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.12	87.79
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.50	88.41
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.16	88.75
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.17	89.74
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.78	89.13
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.60	89.31
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.11	90.80
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.94	90.97
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.05	89.86
	1/23/2017	<1.00	<1.00	<1.00	<1.00	6.99	89.92
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.53	90.38
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.05	89.86
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.38	88.53
	1/4/2018	<1.00	<1.00	<1.00	<1.00	7.86	89.05
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.54	89.37
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MW18	10/8/2010	<1.0	<1.0	<1.0	<1.0	13.03	84.60
	1/26/2011	2.3	<1.0	<1.0	4.6	13.33	84.30
	4/14/2011	1.2	<1.0	<1.0	<1.0	13.06	84.57
	7/28/2011	<1.0	<1.0	<1.0	<1.0	12.36	85.27
	10/19/2011	<1.0	<1.0	<1.0	<1.0	12.46	85.17
	1/19/2012	<1.0	<1.0	<1.0	<1.0	12.83	84.80
	4/10/2012	<1.0	<1.0	<1.0	<1.0	12.13	85.50
	7/19/2012	<1.0	<1.0	<1.0	<1.0	13.22	84.41
	10/3/2012	<1.0	<1.0	<1.0	<1.0	13.62	84.01
	1/20/2013	12	<1.0	<1.0	<1.0	13.70	83.93
	4/17/2013	<1.0	<1.0	8.3	<1.0	PVC Bent	NA
	7/31/2013	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	10/11/2013	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	12/2/2013	Surveyed - Not Sampled				13.38	84.53



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/16/2014	14.0	<4.0	52.8	<4.0	PVC Bent	NA
	4/3/2014	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	7/25/2014	Not Sampled				PVC Bent	NA
	10/14/2014	Not Sampled				PVC Bent	NA
	1/13/2015	Damaged, steel casing bent - Not Sampled				Damaged	NA
	4/20/2015	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	7/28/2015	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
MW18R	8/6/2015	<1.0	<1.0	<1.0	<1.0	11.55	NA
	10/19/2015	<1.0	2.4	<1.0	<1.0	10.15	NA
	1/22/2016	<1.0	<1.0	<1.0	<1.0	11.95	NA
	4/19/2016	<1.0	<1.0	<1.0	<1.0	10.37	NA
	7/12/2016	<1.00	<1.00	<1.00	<1.00	10.45	NA
	10/24/2016	<1.00	<1.00	<1.00	<1.00	11.47	NA
	1/23/2017	<1.00	<1.00	<1.00	<1.00	9.17	NA
	4/26/2017	<1.00	<1.00	<1.00	<1.00	8.82	NA
	7/21/2017	<1.00	<1.00	<1.00	<1.00	9.24	NA
	10/30/2017	<1.00	<1.00	<1.00	<1.00	10.51	NA
	1/4/2018	<1.00	<1.00	<1.00	<1.00	10.08	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	9.54	NA
MW19	10/8/2010	43	<1.0	240	56	11.58	85.19
	1/26/2011	37	<1.0	51	2.0	11.77	85.00
	4/14/2011	2.8	<1.0	5.4	<1.0	11.44	85.33
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.76	86.01
	10/19/2011	8.6	<1.0	32	45	10.80	85.97
	1/19/2012	3.0	<1.0	<1.0	<1.0	11.22	85.55
	4/10/2012	2.0	<1.0	1.1	<1.0	10.52	86.25
	7/19/2012	1.6	<1.0	17	8.8	11.67	85.10
	10/3/2012	56	<1.0	16	14	12.00	84.77
	1/20/2013	3.2	<1.0	<1.0	<1.0	12.07	84.70
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.16	85.61
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.42	84.35
	10/11/2013	14	<1.0	19	6.7	11.79	84.98
	12/2/2013	Surveyed - Not Sampled				11.56	85.36
	1/16/2014	6.9	<4.0	<4.0	<4.0	11.31	85.46
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.67	86.25



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GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.43	87.49
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.32	87.60
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.66	88.26
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.63	88.29
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.63	89.29
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.98	88.94
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.58	89.34
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.30	90.62
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.19	90.73
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.28	89.64
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.39	89.53
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.73	90.19
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.24	89.68
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.55	88.37
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.07	88.85
	5/31/2018	<1.00	<1.00	<1.00	<1.00	PVC Blocked	NA
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MW20	10/8/2010	160	<1.0	190	520	11.68	85.31
	1/26/2011	180	<1.0	290	870	11.93	85.06
	4/14/2011	11	<1.0	54	46	11.64	85.35
	7/28/2011	130	<1.0	160	340	10.96	86.03
	10/19/2011	18	<1.0	76	83	11.46	85.53
	1/19/2012	150	<1.0	120	420	11.33	85.66
	4/10/2012	64	<1.0	32	100	10.70	86.29
	7/19/2012	1.2	<1.0	1.1	13	11.95	85.04
	10/3/2012	180	<1.0	190	900	12.20	84.79
	1/20/2013	52	<1.0	8.7	24	12.30	84.69
	4/17/2013	79	<1.0	2.1	<1.0	11.33	85.66
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.65	84.34
	10/11/2013	24	<1.0	13	43	11.95	85.04
	12/2/2013	Surveyed - Not Sampled				11.56	85.45
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.46	85.53
	4/3/2014	3.7	<1.0	<1.0	<1.0	10.67	86.34
	7/25/2014	2.7	<1.0	<1.0	<1.0	9.49	87.52
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.39	87.62
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.79	88.22
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.42	88.59



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GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.43	89.58
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.06	88.95
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.72	89.29
	4/19/2016	<1.0	<1.0	<1.0	<1.0	5.39	91.62
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.22	90.79
	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.32	88.69
	1/23/2017	<1.00	<1.00	<1.00	<1.00	7.26	89.75
	4/26/2017	<1.00	<1.00	<1.00	<1.00	6.78	90.23
	7/21/2017	<1.00	<1.00	<1.00	<1.00	7.30	89.71
	10/30/2017	<1.00	<1.00	<1.00	<1.00	8.58	88.43
	1/4/2018	<1.00	<1.00	<1.00	<1.00	8.12	88.89
	5/31/2018	<1.00	<1.00	<1.00	<1.00	7.74	89.27
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MW21	10/8/2010	<1.0	<1.0	<1.0	<1.0	11.35	85.31
	1/26/2011	1.4	<1.0	<1.0	<1.0	11.63	85.03
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.31	85.35
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.65	86.01
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.18	85.48
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.05	85.61
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.43	86.23
	7/19/2012	<1.0	<1.0	<1.0	<1.0	11.67	84.99
	10/3/2012	6.9	<1.0	<1.0	<1.0	11.92	84.74
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.00	84.66
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.00	85.66
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.38	84.28
	10/11/2013	2.1	<1.0	<1.0	<1.0	11.62	85.04
	12/2/2013	Surveyed - Not Sampled				11.24	85.44
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.12	85.54
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.36	86.32
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.15	87.53
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.08	87.60
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.48	88.20
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.11	88.57
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.11	89.57
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.73	88.95
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.38	89.30
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.06	90.62



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.87	90.81
	10/24/2016	<1.00	<1.00	<1.00	<1.00	6.98	89.70
	1/23/2017	Removed from Monitoring Program				NM	NA
MW22	10/8/2010	<1.0	<1.0	<1.0	<1.0	11.44	85.37
	1/26/2011	<1.0	<1.0	<1.0	<1.0	11.53	85.28
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.27	85.54
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.66	86.15
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.15	85.66
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.03	85.78
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.32	86.46
	7/19/2012	<1.0	<1.0	<1.0	<1.0	11.65	85.16
	10/3/2012	10	<1.0	<1.0	<1.0	11.90	84.91
	1/20/2013	<1.0	<1.0	<1.0	<1.0	11.99	84.82
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.01	85.86
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.50	84.36
	10/11/2013	<1.0	<1.0	<1.0	<1.0	11.64	85.17
	12/2/2013	Surveyed - Not Sampled				11.21	85.62
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.09	85.72
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.38	86.45
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.13	87.70
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.08	87.75
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.45	88.38
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.11	88.72
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.12	89.71
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.72	89.11
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.38	89.45
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.06	90.77
	7/12/2016	<1.00	<1.00	<1.00	<1.00	5.87	90.96
	10/24/2016	<1.00	<1.00	<1.00	<1.00	6.99	89.84
	1/23/2017	Removed from Monitoring Program				NM	NA
MW23	10/28/2010	130	<1.0	210	200	11.90	84.90
	1/26/2011	19	<1.0	79	6.0	11.98	84.82
	4/14/2011	1.1	<1.0	5.7	<1.0	11.69	85.11
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.99	85.81
	10/19/2011	<1.0	<1.0	3.6	5.2	11.27	85.53



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.39	85.41
	4/10/2012	3.0	<1.0	6.1	<1.0	10.73	86.07
	7/19/2012	11	<1.0	25	24	11.93	84.87
	10/3/2012	13	<1.0	11	<1.0	12.30	84.50
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.38	84.42
	4/17/2013	1.4	<1.0	<1.0	<1.0	11.40	85.40
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.57	84.23
	10/11/2013	15	<1.0	2.7	<1.0	12.01	84.79
	12/2/2013	Surveyed - Not Sampled				11.74	85.18
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.52	85.28
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.82	86.10
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.61	87.31
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.50	87.42
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.89	88.03
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.49	88.43
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.56	89.36
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.20	88.72
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.80	89.12
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.49	90.43
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.37	90.55
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.47	89.45
	1/23/2017	Removed from Monitoring Program				NM	NA
MW24	10/28/2010	26	<1.0	96	110	11.69	84.98
	1/26/2011	3.6	<1.0	5.8	<1.0	11.80	84.87
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.49	85.18
	7/28/2011	<1.0	<1.0	<1.0	<1.0	10.80	85.87
	10/19/2011	<1.0	<1.0	2.1	<1.0	11.30	85.37
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.22	85.45
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.55	86.12
	7/19/2012	<1.0	<1.0	<1.0	<1.0	11.85	84.82
	10/3/2012	31	<1.0	52	58	12.12	84.55
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.19	84.48
	4/17/2013	7.0	<1.0	<1.0	<1.0	11.19	85.48
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.43	84.24
	10/11/2013	11	<1.0	22	35	12.85	83.82
	12/2/2013	Surveyed - Not Sampled				11.52	85.24



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.32	85.35
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.62	86.14
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.40	87.36
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.61	87.15
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.72	88.04
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.36	88.40
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.35	89.41
	10/19/2015	<1.0	<1.0	<1.0	<1.0	7.85	88.91
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.61	89.15
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.31	90.45
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.13	90.63
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.22	89.54
	1/23/2017	Removed from Monitoring Program				NM	NA
MW25	10/28/2010	2.7	<1.0	9.0	2.6	11.93	85.62
	1/26/2011	<1.0	<1.0	<1.0	<1.0	12.00	85.55
	4/14/2011	<1.0	<1.0	<1.0	<1.0	11.70	85.85
	7/28/2011	<1.0	<1.0	<1.0	<1.0	11.06	86.49
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.78	85.77
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.46	86.09
	4/10/2012	<1.0	<1.0	<1.0	<1.0	10.85	86.70
	7/19/2012	<1.0	<1.0	<1.0	<1.0	12.20	85.35
	10/3/2012	<1.0	<1.0	<1.0	<1.0	14.35	85.20
	1/20/2013	<1.0	<1.0	<1.0	<1.0	12.45	85.10
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.39	86.16
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.98	84.57
	10/11/2013	<1.0	<1.0	<1.0	<1.0	12.10	85.45
	12/2/2013	Surveyed - Not Sampled				11.69	85.92
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.43	86.02
	4/3/2014	<1.0	<1.0	<1.0	<1.0	10.80	86.81
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.63	87.98
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.53	88.08
	1/13/2015	<1.0	<1.0	<1.0	<1.0	8.99	88.62
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.60	89.01
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.60	90.01
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.23	89.38
	1/22/2016	<1.0	<1.0	<1.0	<1.0	7.89	89.72



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.56	91.05
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.42	91.19
	10/24/2016	<1.00	<1.00	<1.00	<1.00	6.63	90.98
	1/23/2017	Removed from Monitoring Program				NM	NA
MW26	1/26/2011	17	<1.0	82	3.3	12.66	84.65
	4/14/2011	<1.0	<1.0	70	<1.0	12.35	84.96
	7/28/2011	<1.0	<1.0	1.0	<1.0	11.66	85.65
	10/19/2011	110	<1.0	440	720	12.15	85.16
	1/19/2012	4.6	<1.0	6.1	12	12.15	85.16
	4/10/2012	3.4	<1.0	120	4.9	11.40	85.91
	7/19/2012	<1.0	<1.0	2.0	<1.0	12.75	84.56
	10/3/2012	<1.0	<1.0	<1.0	<1.0	12.95	84.36
	1/20/2013	1.4	<1.0	6.3	<1.0	13.03	84.28
	4/17/2013	<1.0	<1.0	7.5	<1.0	12.09	85.22
	7/31/2013	<1.0	<1.0	<1.0	<1.0	13.18	84.13
	10/11/2013	10	<1.0	<1.0	<1.0	12.73	84.58
	12/2/2013	Surveyed - Not Sampled				12.53	84.96
	1/16/2014	<4.0	<4.0	<4.0	<4.0	12.23	85.08
	4/3/2014	<1.0	<1.0	<1.0	<1.0	11.58	85.91
	7/25/2014	<1.0	<1.0	<1.0	<1.0	10.31	87.18
	10/14/2014	<1.0	<1.0	<1.0	<1.0	10.24	87.25
	1/13/2015	<1.0	<1.0	<1.0	<1.0	9.68	87.81
	4/20/2015	<1.0	<1.0	<1.0	<1.0	9.28	88.21
	7/28/2015	<1.0	<1.0	<1.0	<1.0	8.31	89.18
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.86	88.63
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.56	88.93
	4/19/2016	<1.0	<1.0	<1.0	<1.0	7.24	90.25
	7/12/2016	<1.00	<1.00	<1.00	<1.00	7.12	90.37
	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.21	89.28
	1/23/2017	Removed from Monitoring Program				NM	NA
MW27	1/26/2011	2.1	<1.0	22	<1.0	12.52	84.63
	4/14/2011	51	<1.0	93	11	12.20	84.95
	7/28/2011	3.6	<1.0	10	<1.0	11.45	85.70
	10/19/2011	3.2	<1.0	31	<1.0	11.98	85.17
	1/19/2012	6.8	<1.0	<1.0	<1.0	12.05	85.10



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/10/2012	<1.0	<1.0	<1.0	<1.0	11.27	85.88
	7/19/2012	<1.0	<1.0	1.6	<1.0	12.42	84.73
	10/3/2012	52	<1.0	<1.0	<1.0	12.79	84.36
	1/20/2013	2.3	<1.0	<1.0	<1.0	12.90	84.25
	4/17/2013	1.5	<1.0	2.1	<1.0	11.93	85.22
	7/31/2013	2.5	<1.0	<1.0	<1.0	12.47	84.02
	10/11/2013	2.4	<1.0	1.8	<1.0	12.55	84.60
	12/2/2013	Surveyed - Not Sampled				12.34	84.99
	1/16/2014	23.8	<4.0	<4.0	<4.0	12.07	85.08
	4/3/2014	<1.0	<1.0	<1.0	<1.0	11.43	85.90
	7/25/2014	1.3	<1.0	<1.0	<1.0	10.23	87.10
	10/14/2014	<1.0	<1.0	<1.0	<1.0	10.16	87.17
	1/13/2015	<1.0	<1.0	<1.0	<1.0	9.55	87.78
	4/20/2015	<1.0	<1.0	<1.0	<1.0	9.16	88.17
	7/28/2015	<1.0	<1.0	<1.0	<1.0	8.17	89.16
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.75	88.58
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.41	88.92
	4/19/2016	<1.0	<1.0	<1.0	<1.0	7.09	90.24
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.95	90.38
	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.03	89.30
	1/23/2017	Removed from Monitoring Program				NM	NA
MW28	1/26/2011	<1.0	<1.0	<1.0	<1.0	12.30	84.67
	4/14/2011	<1.0	<1.0	<1.0	<1.0	12.02	84.95
	7/28/2011	<1.0	<1.0	<1.0	<1.0	11.38	85.59
	10/19/2011	<1.0	<1.0	<1.0	<1.0	11.86	85.11
	1/19/2012	<1.0	<1.0	<1.0	<1.0	11.85	85.13
	4/10/2012	<1.0	<1.0	<1.0	<1.0	11.10	85.87
	7/19/2012	1.3	<1.0	2.4	<1.0	12.25	84.72
	10/3/2012	2.5	<1.0	<1.0	<1.0	12.55	84.42
	1/20/2013	1.2	<1.0	<1.0	<1.0	12.63	84.34
	4/17/2013	<1.0	<1.0	<1.0	<1.0	11.73	85.24
	7/31/2013	<1.0	<1.0	<1.0	<1.0	12.90	84.07
	10/11/2013	3.2	<1.0	<1.0	<1.0	12.33	84.64
	12/2/2013	Surveyed - Not Sampled				12.10	85.01
	1/16/2014	<4.0	<4.0	<4.0	<4.0	11.86	85.11
	4/3/2014	<1.0	<1.0	<1.0	<1.0	11.18	85.93



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UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	7/25/2014	<1.0	<1.0	<1.0	<1.0	9.99	87.12
	10/14/2014	<1.0	<1.0	<1.0	<1.0	9.89	87.22
	1/13/2015	<1.0	<1.0	<1.0	<1.0	9.31	87.80
	4/20/2015	<1.0	<1.0	<1.0	<1.0	8.93	88.18
	7/28/2015	<1.0	<1.0	<1.0	<1.0	7.92	89.19
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.51	88.60
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.35	88.76
	4/19/2016	<1.0	<1.0	<1.0	<1.0	6.88	90.23
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.69	90.42
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.78	89.33
	1/23/2017	Removed from Monitoring Program				NM	NA
MW29	4/10/2012	<1.0	<1.0	<1.0	<1.0	11.60	85.69
	7/19/2012	<1.0	<1.0	<1.0	<1.0	13.10	84.19
	10/3/2012	<1.0	<1.0	<1.0	<1.0	13.66	83.63
	1/20/2013	<1.0	<1.0	<1.0	<1.0	13.75	83.54
	4/17/2013	<1.0	<1.0	<1.0	<1.0	12.31	84.98
	7/31/2013	<1.0	<1.0	<1.0	<1.0	13.24	84.05
	10/11/2013	<1.0	<1.0	<1.0	<1.0	12.90	84.39
	12/2/2013	Surveyed - Not Sampled				12.42	84.79
	1/16/2014	<4.0	<4.0	<4.0	<4.0	12.50	84.79
	4/3/2014	<1.0	<1.0	<1.0	<1.0	11.18	85.75
	7/25/2014	<1.0	<1.0	<1.0	<1.0	10.22	86.99
	10/14/2014	<1.0	<1.0	<1.0	<1.0	10.11	87.10
	1/13/2015	<1.0	<1.0	<1.0	<1.0	9.62	87.59
	4/20/2015	<1.0	<1.0	<1.0	<1.0	9.18	88.03
	7/28/2015	<1.0	<1.0	<1.0	<1.0	8.16	89.05
	10/19/2015	<1.0	<1.0	<1.0	<1.0	8.73	88.48
	1/22/2016	<1.0	<1.0	<1.0	<1.0	8.45	88.76
	4/19/2016	<1.0	<1.0	<1.0	<1.0	7.04	90.17
	7/12/2016	<1.00	<1.00	<1.00	<1.00	6.97	90.24
	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.04	89.17
	1/23/2017	Removed from Monitoring Program				NM	NA
MW30	4/10/2012	<1.0	<1.0	<1.0	<1.0	12.49	85.68
	7/19/2012	<1.0	<1.0	<1.0	<1.0	13.69	84.48
	10/3/2012	<1.0	<1.0	<1.0	<1.0	13.99	84.18



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
UPRR 53 PAN AM J #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/20/2013	<1.0	<1.0	<1.0	<1.0	14.04	84.13
	4/17/2013	<1.0	<1.0	<1.0	<1.0	13.18	84.99
	7/31/2013	<1.0	<1.0	<1.0	<1.0	14.10	84.07
	10/11/2013	<1.0	<1.0	<1.0	<1.0	13.84	84.33
	12/2/2013	Surveyed - Not Sampled				13.35	84.77
	1/16/2014	<4.0	<4.0	<4.0	<4.0	13.35	84.82
	4/3/2014	<1.0	<1.0	<1.0	<1.0	12.38	85.75
	7/25/2014	<1.0	<1.0	<1.0	<1.0	11.15	86.97
	10/14/2014	<1.0	<1.0	<1.0	<1.0	11.06	87.06
	1/13/2015	<1.0	<1.0	<1.0	<1.0	10.48	87.64
	4/20/2015	<1.0	<1.0	<1.0	<1.0	10.06	88.06
	7/28/2015	<1.0	<1.0	<1.0	<1.0	9.07	89.05
	10/19/2015	<1.0	<1.0	<1.0	<1.0	9.69	88.43
	1/22/2016	<1.0	<1.0	<1.0	<1.0	9.42	88.70
	4/19/2016	<1.0	<1.0	<1.0	<1.0	7.96	90.16
	7/12/2016	<1.00	<1.00	<1.00	<1.00	7.89	90.23
	10/24/2016	<1.00	<1.00	<1.00	<1.00	9.00	89.12
	1/23/2017	Removed from Monitoring Program				NM	NA
COGCC Allowable Levels		5	1000	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

Elev. - elevation

ft bgs - feet below ground surface

GW - groundwater

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate

Results in red indicate data from samples collected after start up of air sparge/soil vapor extraction remediation system.



June 06, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - UPRR 53 Pan Am J #1

Project Number - KMG09458/WO#880198

Attached are your analytical results for KMG - UPRR 53 Pan Am J #1 received by Origins Laboratory, Inc. May 31, 2018. This project is associated with Origins project number Y805463-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y805463-01	Water	May 31, 2018 9:55	05/31/2018 15:02
MW02	Y805463-02	Water	May 31, 2018 9:35	05/31/2018 15:02
MW04	Y805463-03	Water	May 31, 2018 10:20	05/31/2018 15:02
MW05	Y805463-04	Water	May 31, 2018 13:45	05/31/2018 15:02
MW07	Y805463-05	Water	May 31, 2018 10:45	05/31/2018 15:02
MW08	Y805463-06	Water	May 31, 2018 13:35	05/31/2018 15:02
MW09	Y805463-07	Water	May 31, 2018 13:25	05/31/2018 15:02
MW10	Y805463-08	Water	May 31, 2018 13:32	05/31/2018 15:02
MW11	Y805463-09	Water	May 31, 2018 13:56	05/31/2018 15:02
MW12	Y805463-10	Water	May 31, 2018 12:05	05/31/2018 15:02
MW13	Y805463-11	Water	May 31, 2018 11:30	05/31/2018 15:02
MW14	Y805463-12	Water	May 31, 2018 11:05	05/31/2018 15:02
MW15	Y805463-13	Water	May 31, 2018 12:30	05/31/2018 15:02
MW16	Y805463-14	Water	May 31, 2018 13:10	05/31/2018 15:02

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW17	Y805463-15	Water	May 31, 2018 13:20	05/31/2018 15:02
MW18R	Y805463-16	Water	May 31, 2018 11:45	05/31/2018 15:02
MW19	Y805463-17	Water	May 31, 2018 13:00	05/31/2018 15:02
MW20	Y805463-18	Water	May 31, 2018 13:15	05/31/2018 15:02

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

ORIGINS
LABORATORY, INC

Client: LT E

Address: _____

Telephone Number: _____

Email Address: KMG Group

Project Manager: Sulzberger

Project Name: UPRR 53 Pan Am J #1

Project Number: KMG 09458

Samples Collected By: R. Tury + D. Hatch

www.originslaboratory.com

Y805463

page 1 of 2

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	BTEX	
MW01	5-21-18	0955	3		X				X				1
MW02	5-31-18	0935	3		X				X				2
MW04	5-31-18	1020	3		X				X				3
MW05	5-31-18	1345	3		X				X				4
MW07	5-31-18	1045	3		X				X				5
MW08	5-31-18	1335	3		X				X				6
MW09	5-31-18	1325	3		X				X				7
MW10	5-31-18	1732	3		X				X				8
MW11	5-31-18	1356	3		X				X				9
MW12	5-31-18	1205	3		X				X				10

Relinquished By: [Signature]

Relinquished By: _____

Date: _____

Date: _____

Received By: [Signature]

Received By: _____

Date: _____

Date: _____

Turnaround Time: _____

Same Day ☐ 24 Hr ☐

48 Hr ☐ 72 Hr ☐

Standard ☒

Temp Received: 4.5

Date Results Needed: _____

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

ORIGINS

LABORATORY, INC

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Y805463 page 2 of 2

Client: LT E
 Address: _____
 Telephone Number: KM6 Group
 Email Address: _____

Project Manager: Sulzberger
 Project Name: UPRR 53 Pan Am J#1
 Project Number: KM609458
 Samples Collected By: R Tway + D Hatch

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved				Soil	Air Summa #	Other	Analysis			
				HCl	HNO ₃	Other	Groundwater				Other	Other		
MW13	5-31-18	1130	3	X				X				X		1
MW14	5-31-18	1105	3	X				X				X		2
MW15	5-31-18	1230	3	X				X				X		3
MW16	5-31-18	1310	3	X				X				X		4
MW17	5-31-18	1320	3	X				X				X		5
MW18R	5-31-18	1145	3	X				X				X		6
MW19	5-31-18	1300	3	X				X				X		7
MW20	5-31-18	1315	3	X				X				X		8
														9
														10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Samuel E</u>			<u>[Signature]</u>	5/31/18	1502	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
						Standard <input checked="" type="checkbox"/>

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received- 4.5

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y805463 Client: LTE
Client Project ID: KMG-UPRR 53 Pan Am J #1
Checklist Completed by: WJ JC Shipped Via: HD
Date/time completed: 5/31/2018 1750 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐
Cooler Number/Temperature: 1 4.5 °C / °C / °C / °C (Describe)
Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JP

Date/Time Reviewed 6/4/18

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW01

5/31/2018 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	84-114			"	"	" S-07	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW02

5/31/2018 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW04

5/31/2018 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

105 % 84-121
102 % 85-115
103 % 84-114

" " "
" " "
" " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW05

5/31/2018 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW07

5/31/2018 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	84-114			"	"	" S-07	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW08

5/31/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121			"	"	"	
Surrogate: Toluene-d8	93.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW09

5/31/2018 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	92.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	129 %	84-114			"	"	" S-07	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW10
5/31/2018 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805463-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	94.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.1 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW11

5/31/2018 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	93.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW12

5/31/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-10 (Water)

BTEX by EPA 8260C

Benzene	25.3	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	5.47	1.00	"	"	"	"	"	
Xylenes, total	21.0	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	
Surrogate: Toluene-d8	91.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW13

5/31/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	94.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW14

5/31/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	94.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW15

5/31/2018 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	93.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW16
5/31/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805463-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	93.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW17

5/31/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	93.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW18R

5/31/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805463-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	92.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW19
5/31/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805463-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

110 % 84-121
94.0 % 85-115
94.2 % 84-114

" " "
" " "
" " "

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW20
5/31/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805463-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8F0501	06/05/2018	06/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	
Surrogate: Toluene-d8	93.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	84-114			"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0501 - EPA 5030B (Water)										
Blank (B8F0501-BLK1)					Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		84-121			
Surrogate: Toluene-d8	61		"	62.5	98.0		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F0501 - EPA 5030B (Water)

Blank (B8F0501-BLK2)

Prepared: 06/05/2018 Analyzed: 06/05/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5	109		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.2		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0501 - EPA 5030B (Water)										
LCS (B8F0501-BS1)					Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	46.4	1.00	ug/L	50.0		92.7	73.3-129			
Toluene	46.4	1.00	"	50.0		92.7	76.2-123			
Ethylbenzene	50.7	1.00	"	50.0		101	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	50.9	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.0	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0501 - EPA 5030B (Water)										
LCS (B8F0501-BS2)					Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	45.2	1.00	ug/L	50.0		90.4	73.3-129			
Toluene	44.1	1.00	"	50.0		88.2	76.2-123			
Ethylbenzene	46.7	1.00	"	50.0		93.4	73.6-130			
m,p-Xylene	93.5	2.00	"	100		93.5	76.1-126			
o-Xylene	46.6	1.00	"	50.0		93.1	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.5	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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LT Environmental, Inc.
4600 West 60th Avenue
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Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F0501 - EPA 5030B (Water)

Matrix Spike (B8F0501-MS1)		Source: Y805461-06			Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	40.7	1.00	ug/L	50.0	ND	81.4	74-130			
Toluene	39.5	1.00	"	50.0	ND	79.0	73-131			
Ethylbenzene	43.0	1.00	"	50.0	ND	86.1	76-132			
m,p-Xylene	86.0	2.00	"	100	ND	86.0	69-139			
o-Xylene	43.5	1.00	"	50.0	ND	87.0	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.7	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F0501 - EPA 5030B (Water)

Matrix Spike (B8F0501-MS2)		Source: Y805461-07			Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	42.4	1.00	ug/L	50.0	ND	84.8	74-130			
Toluene	41.2	1.00	"	50.0	ND	82.4	73-131			
Ethylbenzene	44.0	1.00	"	50.0	ND	88.0	76-132			
m,p-Xylene	87.6	2.00	"	100	ND	87.6	69-139			
o-Xylene	44.7	1.00	"	50.0	ND	89.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.9	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F0501 - EPA 5030B (Water)

Matrix Spike Dup (B8F0501-MSD1)		Source: Y805461-06			Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	41.4	1.00	ug/L	50.0	ND	82.7	74-130	1.54	20	
Toluene	40.2	1.00	"	50.0	ND	80.5	73-131	1.93	20	
Ethylbenzene	42.4	1.00	"	50.0	ND	84.9	76-132	1.40	20	
m,p-Xylene	84.3	2.00	"	100	ND	84.3	69-139	2.00	20	
o-Xylene	43.3	1.00	"	50.0	ND	86.6	74-131	0.484	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	61		"	62.5		96.9	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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LT Environmental, Inc.
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Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8F0501 - EPA 5030B (Water)

Matrix Spike Dup (B8F0501-MSD2)		Source: Y805461-07			Prepared: 06/05/2018 Analyzed: 06/05/2018					
Benzene	43.0	1.00	ug/L	50.0	ND	86.1	74-130	1.43	20	
Toluene	41.7	1.00	"	50.0	ND	83.5	73-131	1.33	20	
Ethylbenzene	43.7	1.00	"	50.0	ND	87.4	76-132	0.684	20	
m,p-Xylene	88.0	2.00	"	100	ND	88.0	69-139	0.479	20	
o-Xylene	44.4	1.00	"	50.0	ND	88.8	74-131	0.606	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	60		"	62.5		95.6	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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