

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

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)
E01@9'	9'	01/16/2009	NA	NA	NA	NA	<50	<50	<50
S01@10'	10'	01/16/2009	NA	NA	NA	NA	<50	<50	<50
S02@10'	10'	01/16/2009	NA	NA	NA	NA	530	1100	<50
W01@10'	10'	01/16/2009	NA	NA	NA	NA	390	500	<50
S03@10'	10'	01/19/2009	NA	NA	NA	NA	<50	<50	<50
N01@10'	10'	01/20/2009	NA	NA	NA	NA	<50	<50	<50
N02@10'	10'	01/20/2009	NA	NA	NA	NA	620	2900	<50
E02@9'	9'	01/21/2009	NA	NA	NA	NA	390	750	<50
N03@10'	10'	01/21/2009	NA	NA	NA	NA	520	1400	<50
W02@10'	10'	01/21/2009	NA	NA	NA	NA	760	3400	<50
W03@10'	10'	01/23/2009	NA	NA	NA	NA	570	1500	<50
E03@10'	10'	01/27/2009	NA	NA	NA	NA	<50	<50	<50
E04@10'	10'	01/27/2009	NA	NA	NA	NA	<50	<50	<50
N04@10'	10'	01/27/2009	NA	NA	NA	NA	430	960	<50
NE01@9'	9'	01/29/2009	NA	NA	NA	NA	<50	<50	<50
W04@9'	9'	01/29/2009	NA	NA	NA	NA	<50	<50	<50
N05@10'	10'	02/04/2009	NA	NA	NA	NA	<50	<50	<50
N06@10'	10'	02/04/2009	NA	NA	NA	NA	180	200	<50
N07@10'	10'	02/04/2009	NA	NA	NA	NA	<50	<50	<50
W05@10'	10'	02/04/2009	NA	NA	NA	NA	<50	<50	<50
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*

Notes: bgs - below ground surface
COGCC - Colorado Oil and Gas Conservation Commission
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram

NA - not analyzed/not available
ORO - oil range organics
* - Standard applies to combined DRO-GRO-ORO
< - less than laboratory reporting limit
Bold indicates result exceeds allowable level



TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
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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	14.00	NA
GW02	2/5/2009	2600	3100	220	3600	14.00	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



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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)
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
	10/24/2016	<1.00	<1.00	<1.00	<1.00	8.54	90.3
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



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	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
	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



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	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	91.3
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.09	90.15
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
	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	5.9	91.3
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.04	90.16



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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
	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



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	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
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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



TABLE 2
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	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
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
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



TABLE 2
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)
	1/26/2011	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
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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



TABLE 2
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	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	91.1
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.46	89.95
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MW12	4/9/2010	450	73	920	5800	12.57	84.69
	7/16/2010	200	90	680	5500	11.08	86.18
	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



TABLE 2
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)
	10/14/2014	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
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
	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



TABLE 2
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)
	10/24/2016	<1.00	<1.00	<1.00	<1.00	7.51	89.99
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
	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
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



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UPRR 53 PAN AM J #1
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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	420	1.3	1100	3300	12.15	85.65
	1/19/2012	390	<1.0	870	5800	12.08	85.72
	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
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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
	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



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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)
	10/11/2013	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
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
	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



TABLE 2
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	7.17	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
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
	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
	MW18 abandoned on 7/30/2015						
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



TABLE 2
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)
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
	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
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



TABLE 2
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	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
	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
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



TABLE 2
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	7.11	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
	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	89.7
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
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



TABLE 2
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)
	7/28/2011	<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
	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
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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



TABLE 2
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)
	12/2/2013	Surveyed - Not Sampled				11.52	85.24
	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
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 2
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
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
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
	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



TABLE 2
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	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	89.3
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
	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



TABLE 2
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)
	4/20/2015	<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
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
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
	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



TABLE 2
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	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
COGCC Allowable Level		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.



November 01, 2016

LT Environmental, Inc.

Justin Solomon

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. October 24, 2016. This project is associated with Origins project number X610268-01.

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

Justin Solomon
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	X610268-01	Water	October 24, 2016 10:00	10/24/2016 16:20
MW02	X610268-02	Water	October 24, 2016 10:05	10/24/2016 16:20
MW04	X610268-03	Water	October 24, 2016 10:10	10/24/2016 16:20
MW05	X610268-04	Water	October 24, 2016 10:15	10/24/2016 16:20
MW07	X610268-05	Water	October 24, 2016 10:20	10/24/2016 16:20
MW08	X610268-06	Water	October 24, 2016 10:25	10/24/2016 16:20
MW09	X610268-07	Water	October 24, 2016 10:30	10/24/2016 16:20
MW10	X610268-08	Water	October 24, 2016 10:35	10/24/2016 16:20
MW11	X610268-09	Water	October 24, 2016 10:40	10/24/2016 16:20
MW12	X610268-10	Water	October 24, 2016 10:45	10/24/2016 16:20

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

Justin Solomon
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
MW13	X610268-11	Water	October 24, 2016 10:50	10/24/2016 16:20
MW14	X610268-12	Water	October 24, 2016 10:55	10/24/2016 16:20
MW15	X610268-13	Water	October 24, 2016 11:00	10/24/2016 16:20
MW16	X610268-14	Water	October 24, 2016 11:05	10/24/2016 16:20
MW17	X610268-15	Water	October 24, 2016 11:10	10/24/2016 16:20
MW18R	X610268-16	Water	October 24, 2016 11:15	10/24/2016 16:20
MW19	X610268-17	Water	October 24, 2016 11:20	10/24/2016 16:20
MW20	X610268-18	Water	October 24, 2016 11:25	10/24/2016 16:20
MW21	X610268-19	Water	October 24, 2016 11:30	10/24/2016 16:20
MW22	X610268-20	Water	October 24, 2016 11:35	10/24/2016 16:20

Origins Laboratory, Inc.



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

Justin Solomon
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
MW23	X610268-21	Water	October 24, 2016 11:40	10/24/2016 16:20
MW24	X610268-22	Water	October 24, 2016 11:45	10/24/2016 16:20
MW25	X610268-23	Water	October 24, 2016 11:50	10/24/2016 16:20
MW26	X610268-24	Water	October 24, 2016 11:55	10/24/2016 16:20
MW27	X610268-25	Water	October 24, 2016 12:00	10/24/2016 16:20
MW28	X610268-26	Water	October 24, 2016 12:05	10/24/2016 16:20
MW29	X610268-27	Water	October 24, 2016 12:10	10/24/2016 16:20
MW30	X610268-28	Water	October 24, 2016 12:15	10/24/2016 16:20

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

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

ORIGINS
LABORATORY, INC

X610268

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: John Cocroft						
Project: KMG - UPRR 53 Pan Am J #1		Project Number: KMG09458/WO#88019813						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	10/24/16	1000	CT/3	02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
02-001	MW02	Water		1005		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
03-001	MW04	Water		1010		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
04-001	MW05	Water		1015		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
05-001	MW07	Water		1020		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
06-001	MW08	Water		1025		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
07-001	MW09	Water		1030		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
08-001	MW10	Water		1035		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
09-001	MW11	Water		1040		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
10-001	MW12	Water		1045		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
11-001	MW13	Water		1050		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 11.4
Ice present? Yes No
Turn Around Time:
Same Day: ☐ 24-hr: ☐ 72-hr: ☐ Standard: ☒

Relinquished By: [Signature] Date / Time: 10/24/16 1620
Received By: [Signature] Date / Time: 10/24/16 1620

Relinquished By: [Signature] Date / Time: 10/24/16 1620
Received By: [Signature] Date / Time: 10/24/16 1620

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

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

ORIGINS
LABORATORY, INC

X610268

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

12-001	MW14	Water	10/24/16	1055	CT/53	02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
13-001	MW15	Water		1108		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
14-001	MW16	Water		1105		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
15-001	MW17	Water		1110		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
16-001	MW18R	Water		1115		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
17-001	MW19	Water		1120		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
18-001	MW20	Water		1125		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
19-001	MW21	Water		1130		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
20-001	MW22	Water		1135		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
21-001	MW23	Water		1140		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
22-001	MW24	Water		1145		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
23-001	MW25	Water		1150		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C
24-001	MW26	Water		1155		02_40mL Amber VOA Val - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 11.4

Ice present? Yes No

Turn Around Time: Same Day: 24-hr 48-hr 72-hr Standard

Relinquished By: [Signature] Date / Time: 10/24/16 1620

Received By: [Signature] Date / Time: 10/24/16 1620

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: KMG09458/WO#88019813

Project: KMG - UPRR 53 Pan Am J #1

ORIGINS
LABORATORY, INC

X610268

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322

25-001	MW27	Water	10/24/16	1200	CT/DP	02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
26-001	MW28	Water	✓	1205	✓	02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
27-001	MW29	Water	✓	1210	✓	02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
28-001	MW30	Water	✓	1215	✓	02_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 11.4
Ice present? Yes No
Turn Around Time:
Same Day: ☐ 24-hr ☐ 48-hr
72-hr ☐ Standard ☒

Relinquished By: [Signature] Date / Time: 10/24/16 1620
Received By: [Signature] Date / Time: 10/24/16 1620

Relinquished By: [Signature] Date / Time: 10/24/16 1620
Received By: [Signature] Date / Time: 10/24/16 1620

Origins Laboratory, Inc.

Jefe Pellegrini

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

Justin Solomon
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: XL102108

Client: LTE

Client Project ID: KMG-UPRR53 Pan Am J#1

Checklist Completed by: Jeff Smith

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/25/16

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other:

Cooler Number/Temperature: 1 11.4 °C 1 °C 1 °C (Describe)

Thermometer ID: TCB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	A			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		1		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		5		
Were all samples received intact ⁽¹⁾ ?	A			
Was adequate sample volume provided ⁽¹⁾ ?	A			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	Y			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	Y			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	C			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		Y		
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)	X			HCL
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)

Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

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

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

MW01

10/24/2016 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW02

10/24/2016 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW04

10/24/2016 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW05

10/24/2016 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW07

10/24/2016 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-05 (Water)

BTEX by EPA 8260C

Benzene	67.4	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016
Toluene	2.50	1.00	"	"	"	"	"
Ethylbenzene	111	1.00	"	"	"	"	"
Xylenes, total	382	10.0	"	10	"	"	10/31/2016
Surrogate: 1,2-Dichloroethane-d4	92.4 %	84-121			"	"	10/29/2016
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"

Origins Laboratory, Inc.



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

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

MW08

10/24/2016 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-06 (Water)

BTEX by EPA 8260C

Benzene	18.1	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	5.22	1.00	"	"	"	"	"	
Xylenes, total	3.55	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW09

10/24/2016 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW10
10/24/2016 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X610268-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW11

10/24/2016 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X610268-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %	84-121	"	"	"
Surrogate: Toluene-d8	97.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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

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

MW12
10/24/2016 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X610268-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW13

10/24/2016 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW14

10/24/2016 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW15

10/24/2016 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW16
10/24/2016 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X610268-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	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

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

MW17

10/24/2016 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW18R

10/24/2016 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW19

10/24/2016 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

MW20

10/24/2016 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"
Surrogate: Toluene-d8	103 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"

Origins Laboratory, Inc.



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

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

MW21

10/24/2016 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-19 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	105 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

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

MW22

10/24/2016 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-20 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	103 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"

Origins Laboratory, Inc.



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

MW23

10/24/2016 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-21 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

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

MW24

10/24/2016 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-22 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	105 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	

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

MW25

10/24/2016 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-23 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

MW26

10/24/2016 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-24 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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4600 West 60th Avenue
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Justin Solomon
Project Number: KMG09458/WO#88019813
Project: KMG - UPRR 53 Pan Am J #1

MW27

10/24/2016 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-25 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	105 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	

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Arvada CO 80003

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

MW28

10/24/2016 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-26 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	98.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

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

MW29

10/24/2016 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-27 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	84-114			"	"	"	

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Arvada CO 80003

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

MW30

10/24/2016 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X610268-28 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B6J2805	10/28/2016	10/29/2016	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	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

Blank (B6J2805-BLK1)

Prepared: 10/28/2016 Analyzed: 10/29/2016

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	58		"	62.5	92.6		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

Blank (B6J2805-BLK2)

Prepared: 10/28/2016 Analyzed: 10/29/2016

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	63		"	62.5	101		84-121			
Surrogate: Toluene-d8	64		"	62.5	103		85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		84-114			

Origins Laboratory, Inc.



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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

LCS (B6J2805-BS1)

Prepared: 10/28/2016 Analyzed: 10/29/2016

Benzene	52.6	1.00	ug/L	50.0		105	73.3-129			
Toluene	49.0	1.00	"	50.0		98.1	76.2-123			
Ethylbenzene	50.9	1.00	"	50.0		102	73.6-130			
m,p-Xylene	97.1	2.00	"	100		97.1	76.1-126			
o-Xylene	48.7	1.00	"	50.0		97.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.7	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

LCS (B6J2805-BS2)

Prepared: 10/28/2016 Analyzed: 10/29/2016

Benzene	57.4	1.00	ug/L	50.0	115	73.3-129
Toluene	57.1	1.00	"	50.0	114	76.2-123
Ethylbenzene	55.0	1.00	"	50.0	110	73.6-130
m,p-Xylene	113	2.00	"	100	113	76.1-126
o-Xylene	56.9	1.00	"	50.0	114	76.6-124
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102	84-121
Surrogate: Toluene-d8	67		"	62.5	107	85-115
Surrogate: 4-Bromofluorobenzene	66		"	62.5	106	84-114

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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

Matrix Spike (B6J2805-MS1)		Source: X610268-01			Prepared: 10/28/2016 Analyzed: 10/31/2016					
Benzene	56.8	1.00	ug/L	50.0	0.800	112	74-130			
Toluene	56.4	1.00	"	50.0	ND	113	73-131			
Ethylbenzene	53.3	1.00	"	50.0	ND	107	76-132			
m,p-Xylene	106	2.00	"	100	ND	106	69-139			
o-Xylene	52.9	1.00	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	69		"	62.5		110	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

Matrix Spike (B6J2805-MS2)		Source: X610268-02			Prepared: 10/28/2016 Analyzed: 10/31/2016					
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130			
Toluene	48.0	1.00	"	50.0	ND	96.1	73-131			
Ethylbenzene	51.4	1.00	"	50.0	ND	103	76-132			
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	50.4	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	58		"	62.5		92.8	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

Justin Solomon
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 B6J2805 - EPA 5030B (Water)

Matrix Spike Dup (B6J2805-MSD1)		Source: X610268-01			Prepared: 10/28/2016 Analyzed: 10/31/2016					
Benzene	54.1	1.00	ug/L	50.0	0.800	107	74-130	4.90	20	
Toluene	54.3	1.00	"	50.0	ND	109	73-131	3.74	20	
Ethylbenzene	51.3	1.00	"	50.0	ND	103	76-132	3.76	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	1.95	20	
o-Xylene	51.5	1.00	"	50.0	ND	103	74-131	2.70	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	84-121			
Surrogate: Toluene-d8	67		"	62.5		107	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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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 B6J2805 - EPA 5030B (Water)

Matrix Spike Dup (B6J2805-MSD2)		Source: X610268-02			Prepared: 10/28/2016 Analyzed: 10/31/2016					
Benzene	53.6	1.00	ug/L	50.0	ND	107	74-130	1.08	20	
Toluene	47.2	1.00	"	50.0	ND	94.3	73-131	1.89	20	
Ethylbenzene	52.1	1.00	"	50.0	ND	104	76-132	1.37	20	
m,p-Xylene	103	2.00	"	100	ND	103	69-139	1.28	20	
o-Xylene	50.0	1.00	"	50.0	ND	100	74-131	0.698	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	59		"	62.5		94.6	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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.

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4600 West 60th Avenue
Arvada CO 80003

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

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President