

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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	1/7/2008	140	1300	37	1700	6.0	NA
	9/26/2008	2400	4600	67	2100	6.0	NA
MW01	2/20/2008	460	45	200	2800	7.08	NA
	5/8/2008	470	72	210	2800	6.95	NA
	8/26/2008	140	44	160	1600	4.70	NA
	11/14/2008	200	51	170	1800	5.66	NA
	2/17/2009	420	24	260	3100	5.74	NA
	5/15/2009	450	3.4	250	2800	4.75	NA
	8/26/2009	470	25	270	2200	6.54	NA
	11/18/2009	200	2	130	890	6.34	NA
	2/4/2010	450	13	180	1400	6.42	NA
	5/19/2010	290	2.2	120	480	4.23	NA
	8/13/2010	34	7.8	160	1100	4.97	NA
	11/11/2010	24	2.2	160	390	5.51	NA
	2/16/2011	200	1.1	220	510	5.54	NA
	5/24/2011	38	1.4	160	450	3.65	NA
	8/19/2011	280	1.1	160	370	6.42	NA
	11/19/2011	450	12	160	830	6.16	NA
MW01 destroyed as of 12/1/2011							
MW01R	8/21/2012	<1.0	15	39	370	7.45	89.35
	11/29/2012	<1.0	<1.0	<1.0	170	7.70	89.10
	2/28/2013	<1.0	<1.0	<1.0	<1.0	6.82	89.98
	5/13/2013	210	3.6	47	300	5.38	91.42
	8/29/2013	Product - Not Sampled				7.50 (0.04)	89.30
	11/7/2013	7.4	<1.0	12.1	207	5.97	90.83
	11/18/2013	Surveyed - Not Sampled				6.37	90.76
	2/18/2014	14.6	<1.0	31.6	326	5.91	90.89
	5/13/2014	18.7	<1.0	20.8	201	5.77	NA
	7/29/2014	60.2	<1.0	88.2	799	10.09	NA
	11/5/2014	25.1	<1.0	27	178	10.31	NA
	2/18/2015	22.6	<1.0	13.3	132	10.03	NA
	5/6/2015	29.3	<4.0	21.6	158	9.24	NA
	8/24/2015	4.2	<1.0	5	8	11.26	NA
	11/16/2015	23.4	<1.0	10.8	22.7	11.27	NA
	2/16/2016	56.8	<1.0	16.1	32	10.25	NA



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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)
	5/10/2016	35.4	<1.0	6.8	12.8	8.45	NA
	8/9/2016	23.8	<1.00	3.67	2.26	9.00	NA
	11/4/2016	24.7	<1.00	<1.00	<1.00	6.33	NA
	2/6/2017	7.73	<1.00	<1.00	<1.00	6.23	NA
	5/15/2017	20.8	<1.00	<1.00	<1.00	6.26	NA
	8/18/2017	146	<1.00	<1.00	1.21	6.30	NA
	11/17/2017	76.5	<1.00	<1.00	<1.00	6.92	NA
MW02	2/20/2008	<1.0	1.4	180	2400	6.60	NA
	5/8/2008	<10	<10	95	1200	6.65	NA
	8/26/2008	23	<1.0	63	410	4.25	NA
	11/14/2008	8	<1.0	55	280	5.24	NA
	2/17/2009	5.1	<1.0	36	360	5.40	NA
	5/15/2009	5.1	<1.0	84	480	4.41	NA
	8/26/2009	1.6	<1.0	5.2	47	6.19	NA
	11/18/2009	<1.0	<1.0	5	43	5.77	NA
	2/4/2010	1.4	<1.0	21	130	5.88	NA
	5/19/2010	15	<1.0	14	32	3.74	NA
	8/13/2010	3.5	<1.0	24	150	4.44	NA
	11/11/2010	<1.0	<1.0	6.7	29	5.03	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	5.02	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	3.15	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.90	NA
	11/19/2011	<1.0	<1.0	<1.0	7.7	5.74	NA
MW02 destroyed as of 12/1/2011							
MW03	2/20/2008	<1.0	<1.0	<1.0	<1.0	6.60	NA
	5/8/2008	<1.0	<1.0	<1.0	<1.0	6.40	NA
	8/26/2008	<1.0	<1.0	<1.0	<1.0	4.23	NA
	11/14/2008	<1.0	<1.0	<1.0	<1.0	5.13	NA
	2/17/2009	<1.0	<1.0	<1.0	<1.0	5.35	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.99	NA
	8/26/2009	<1.0	<1.0	<1.0	<1.0	5.88	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.89	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.84	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.80	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.47	NA



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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)
	11/11/2010	<1.0	<1.0	<1.0	<1.0	5.05	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	5.05	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	3.21	NA
	8/19/2011	3.4	<1.0	1.5	12	5.86	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.81	NA
	MW03 destroyed as of 12/1/2011						
MW03R	8/21/2012	<1.0	<1.0	<1.0	<1.0	7.32	90.08
	11/29/2012	<1.0	<1.0	<1.0	<1.0	7.01	90.39
	2/28/2013	<1.0	<1.0	<1.0	<1.0	7.06	90.34
	5/13/2013	<1.0	<1.0	<1.0	<1.0	5.66	91.74
	8/29/2013	<1.0	<1.0	<1.0	<1.0	7.65	89.75
	11/7/2013	<1.0	<1.0	<1.0	<1.0	6.26	91.14
	11/18/2013	Surveyed - Not Sampled				5.98	91.10
	2/18/2014	<1.0	<1.0	<1.0	<1.0	6.24	91.16
	5/13/2014	<1.0	<1.0	<1.0	<1.0	5.67	91.89
	7/29/2014	<1.0	<1.0	<1.0	<1.0	6.90	90.66
	11/5/2014	<1.0	<1.0	<1.0	<1.0	7.12	90.44
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.88	90.68
	5/6/2015	<1.0	<1.0	<1.0	<1.0	6.07	91.49
	8/24/2015	<1.0	<1.0	<1.0	<1.0	8.00	89.56
	11/16/2015	<1.0	<1.0	<1.0	<1.0	8.06	89.50
	2/16/2016	<1.0	<1.0	<1.0	<1.0	7.01	90.55
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.34	92.22
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.77	91.79
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.71	91.39
	2/6/2017	<1.00	<1.00	<1.00	<1.00	6.71	91.39
	5/15/2017	<1.00	<1.00	<1.00	<1.00	6.70	91.40
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.62	91.48
	11/17/2017	<1.00	<1.00	<1.00	<1.00	7.22	90.88
MW04	5/8/2008	<1.0	<1.0	<1.0	<1.0	5.33	NA
	8/26/2008	<1.0	<1.0	<1.0	<1.0	3.18	NA
	11/14/2008	<1.0	<1.0	<1.0	<1.0	4.14	NA
	2/17/2009	<1.0	<1.0	<1.0	<1.0	4.31	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	4.19	NA
	8/26/2009	<1.0	<1.0	<1.0	<1.0	6.18	NA



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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)
	11/18/2009	<1.0	<1.0	<1.0	<1.0	4.91	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	4.80	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	2.79	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	3.51	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.10	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.05	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.22	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	4.94	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.76	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.43	NA
	MW04 destroyed as of 2/18/2012						
MW04R	8/21/2012	<1.0	<1.0	<1.0	<1.0	7.27	89.68
	11/29/2012	<1.0	<1.0	<1.0	<1.0	6.91	90.04
	2/28/2013	<1.0	<1.0	<1.0	<1.0	7.08	89.87
	5/13/2013	<1.0	<1.0	<1.0	<1.0	5.63	91.32
	8/29/2013	<1.0	<1.0	<1.0	<1.0	7.64	89.31
	11/7/2013	<1.0	<1.0	<1.0	<1.0	6.22	90.73
	11/18/2013	Surveyed - Not Sampled				5.63	90.72
	2/18/2014	<1.0	<1.0	<1.0	<1.0	6.16	90.79
	5/13/2014	<1.0	<1.0	<1.0	<1.0	6.41	90.84
	7/29/2014	<1.0	<1.0	<1.0	<1.0	7.06	90.19
	11/5/2014	<1.0	<1.0	<1.0	<1.0	7.21	90.04
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.98	90.27
	5/6/2015	<1.0	<1.0	<1.0	<1.0	6.15	91.10
	8/24/2015	<1.0	<1.0	<1.0	<1.0	8.17	89.08
	11/16/2015	<1.0	<1.0	<1.0	<1.0	8.23	89.02
	2/16/2016	<1.0	<1.0	<1.0	<1.0	6.43	90.82
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.39	91.86
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.90	91.35
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.45	90.94
	2/6/2017	<1.00	<1.00	<1.00	<1.00	6.39	91.00
	5/15/2017	<1.00	<1.00	<1.00	<1.00	6.39	91.00
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.41	90.98
	11/17/2017	<1.00	<1.00	<1.00	<1.00	7.02	90.37
MW05	5/8/2008	56	5.6	39	440	5.59	NA



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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)
	8/26/2008	24	<1.0	3.1	43	3.49	NA
	11/14/2008	38	13	36	250	4.49	NA
	2/17/2009	170	<1.0	22	270	4.41	NA
	5/15/2009	70	2.9	5.7	570	3.32	NA
	8/26/2009	Removed from monitoring				NM	NA
MW06	5/8/2008	820	9.2	200	3200	6.12	NA
	8/26/2008	11	9.3	39	350	3.94	NA
	11/14/2008	210	36	120	1500	5.85	NA
	2/17/2009	140	32	110	1400	5.21	NA
	5/15/2009	190	33	110	1300	3.82	NA
	8/26/2009	30	37	92	780	5.91	NA
	11/18/2009	80	18	75	800	5.72	NA
	2/4/2010	86	26	100	1100	5.73	NA
	5/19/2010	160	43	110	1000	3.53	NA
	8/13/2010	13	48	61	460	5.40	NA
	11/11/2010	<1.0	<1.0	6.6	30	5.41	NA
	2/16/2011	14	1.7	38	100	5.39	NA
	5/24/2011	5.5	2.7	44	140	3.49	NA
	8/19/2011	90	1.3	96	270	6.27	NA
	11/19/2011	26	20	60	270	6.08	NA
	2/17/2012	10	9.2	46	270	5.23	NA
MW06 destroyed as of 2/18/2012							
MW06R	8/21/2012	15	41	100	990	7.20	NA
	11/29/2012	18	1.4	30	400	6.82	NA
	2/28/2013	45	1.6	100	560	6.95	NA
	5/13/2013	43	3.3	76	390	5.42	NA
	8/29/2013	23	<1.0	27	85	7.54	NA
MW06R destroyed as of 11/7/2013							
MW06R2	2/18/2014	15.4	138	58.8	893	5.57	NA
	5/13/2014	6.6	27.6	9.2	140	4.81	NA
	7/29/2014	2.8	6.2	2.3	51.6	6.62	NA
	11/5/2014	30.7	16.6	79.2	897	7.30	NA
	2/18/2015	6.2	21.8	16.2	153	6.55	NA
	5/6/2015	2.8	30.2	29.1	265	5.64	NA



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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)
	8/24/2015	15.4	166	105	664	7.79	NA
	11/16/2015	<4.0	33.3	23.6	251	7.95	NA
	2/16/2016	<1.0	46.2	34.3	375	6.72	NA
	5/10/2016	2.6	55.9	31.9	270	5.02	NA
	8/9/2016	6.86	66.2	48.3	444	5.59	NA
	11/4/2016	6.08	62.2	50.9	422	5.99	NA
	2/6/2017	7.57	<1.00	1.84	1.76	5.89	NA
	5/15/2017	1.83	2.29	17.2	135	5.91	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	5.92	NA
	11/17/2017	5.92	<1.00	29.1	16.6	6.66	NA
MW07	6/18/2008	4300	2500	86	5500	6.33	NA
	8/26/2008	730	250	43	680	4.70	NA
	11/14/2008	3300	1600	170	2200	5.56	NA
	2/17/2009	1500	520	150	2300	5.65	NA
	5/15/2009	1500	63	63	1500	4.16	NA
	8/26/2009	1700	16	120	1300	6.34	NA
	11/18/2009	1200	11	120	1600	6.30	NA
	2/4/2010	1800	11	150	2000	6.30	NA
	5/19/2010	1200	17	160	1400	4.24	NA
	8/13/2010	910	2.8	130	600	4.84	NA
	11/11/2010	280	2.3	93	390	5.50	NA
	2/16/2011	97	<1.0	92	470	5.47	NA
	5/24/2011	110	3.5	14	170	3.57	NA
	8/19/2011	640	29	110	260	6.28	NA
	11/19/2011	780	3.7	160	350	6.13	NA
MW07 destroyed as of 12/1/2011							
MW07R	8/21/2012	2.1	<1.0	<1.0	2.9	7.25	89.90
	11/29/2012	77	4.1	29	120	6.59	90.46
	2/28/2013	180	5.8	110	420	6.62	90.43
	5/13/2013	760	3.2	64	260	5.24	91.81
	8/29/2013	510	<1.0	19	130	7.20	89.85
	11/7/2013	128	2.4	12	121	5.83	91.22
	11/18/2013	Surveyed - Not Sampled				6.42	91.16
	2/18/2014	48.6	3.5	16.2	203	5.78	91.27
	5/13/2014	21.2	<1.0	3	38	5.45	NA



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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)
	7/29/2014	11.4	1.6	24.6	273	9.71	NA
	11/5/2014	8.4	<1.0	4	45.6	9.93	NA
	2/18/2015	6.7	<1.0	6	82.8	9.70	NA
	5/6/2015	4.6	<1.0	4.7	59.5	8.84	NA
	8/24/2015	9.5	<1.0	54.8	450	12.69	NA
	11/16/2015	13.2	<1.0	55.3	723	11.05	NA
	2/16/2016	4.3	<4.0	11.9	119	9.91	NA
	5/10/2016	2.9	<1.0	2.0	19.2	8.05	NA
	8/9/2016	1.79	<1.00	3.08	21.8	8.61	NA
	11/4/2016	1.36	<1.00	<1.00	7.81	5.97	NA
	2/6/2017	1.12	<1.00	<1.00	<1.00	5.94	NA
	5/15/2017	1.13	<1.00	<1.00	<1.00	5.97	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.38	NA
	11/17/2017	2.17	<1.00	<1.00	<1.00	7.03	NA
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MW08	6/18/2008	43	870	65	4300	6.17	NA
	8/26/2008	64	250	170	2900	4.00	NA
	11/14/2008	27	1400	240	3100	5.02	NA
	2/17/2009	29	800	290	4300	5.05	NA
	5/15/2009	100	230	250	3200	3.77	NA
	8/26/2009	40	990	280	3700	5.61	NA
	11/18/2009	28	53	140	1300	5.72	NA
	2/4/2010	26	380	290	1600	5.75	NA
	5/19/2010	1.8	37	34	300	3.36	NA
	8/13/2010	17	930	220	2400	4.11	NA
	11/11/2010	<1.0	530	360	2300	4.75	NA
	2/16/2011	11	120	430	2300	4.69	NA
	5/24/2011	13	740	300	2900	2.78	NA
	8/19/2011	25	1000	200	3900	5.62	NA
	11/19/2011	17	320	360	3000	5.32	NA
MW08 destroyed as of 12/1/2011							
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MW08R	8/21/2012	<1.0	68	110	1100	7.52	89.40
	11/29/2012	4.1	200	200	2600	6.95	89.97
	2/28/2013	3.9	200	230	2500	7.13	89.79
	5/13/2013	3.8	190	210	3200	5.63	91.29
	8/29/2013	2.2	400	250	3300	7.73	89.19



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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)
	11/7/2013	<1.0	190	169	2130	6.25	90.67
	11/18/2013	Surveyed - Not Sampled				6.15	90.64
	2/18/2014	<4.0	382	277	2300	5.92	91.00
	5/13/2014	<1.0	163	106	934	5.16	NA
	7/29/2014	<2.0	176	160	2740	9.57	NA
	11/5/2014	<1.0	131	145	1760	9.73	NA
	2/18/2015	<1.0	140	189	2060	9.50	NA
	5/6/2015	<1.0	155	220	2250	8.66	NA
	8/24/2015	<4.0	102	161	1590	10.72	NA
	11/16/2015	<4.0	144	181	1860	10.85	NA
	2/16/2016	<4.0	106	176	2190	9.69	NA
	5/10/2016	<1.0	41.3	108	708	7.89	NA
	8/9/2016	<4.00	12.7	67.7	578	8.50	NA
	11/4/2016	<1.00	47.5	122	779	5.94	NA
	2/6/2017	<1.00	4.19	14.0	124	5.86	NA
	5/15/2017	<1.00	<1.00	<1.00	3.66	5.85	NA
	8/18/2017	<1.00	<1.00	7.66	64.9	5.78	NA
	11/17/2017	<1.00	<1.00	3.14	40.1	6.35	NA
MW09	6/18/2008	63	890	270	5000	5.94	NA
	8/26/2008	4	260	130	2700	3.31	NA
	11/14/2008	29	930	220	3000	4.43	NA
	2/17/2009	33	890	290	4000	4.45	NA
	5/15/2009	28	550	110	3300	3.38	NA
	8/26/2009	Removed from monitoring				NM	NA
MW10	6/18/2008	320	<1.0	44	5700	5.63	NA
	8/26/2008	62	<1.0	<1.0	34	3.45	NA
	11/14/2008	150	<1.0	66	360	4.52	NA
	2/17/2009	40	<1.0	<1.0	2.2	4.82	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.75	NA
	8/26/2009	210	<1.0	14	36	1.86	NA
	11/18/2009	94	<1.0	13	8.7	5.30	NA
	2/4/2010	110	<1.0	45	160	5.34	NA
	5/19/2010	83	<1.0	<1.0	2.8	3.01	NA
	8/13/2010	99	<1.0	7.2	16	3.95	NA
	11/11/2010	10	<1.0	<1.0	<1.0	4.47	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.43	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.48	NA
	8/19/2011	66	<1.0	5.1	8.1	5.36	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.05	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.98	NA
	MW10 destroyed as of 2/8/2012						
MW10R	8/21/2012	1.7	<1.0	8.4	4.6	4.80	88.83
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.41	89.22
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.48	89.15
	5/13/2013	5.6	1.2	70	150	3.01	90.62
	8/29/2013	<1.0	<1.0	<1.0	<1.0	5.21	88.42
	11/7/2013	3.6	<1.0	44.6	104	3.70	89.93
	11/18/2013	Surveyed - Not Sampled				3.89	89.88
	2/18/2014	5.9	<1.0	73.9	334	3.55	90.08
	5/13/2014	7.0	<1.0	54.7	205	-0.55	94.32
	7/29/2014	23.2	<1.0	64.9	323	4.51	89.26
	11/5/2014	4.9	<1.0	27.3	115	4.49	89.28
	2/18/2015	1.7	<1.0	5.1	15.3	4.21	89.56
	5/6/2015	4.6	<1.0	24.1	46.7	3.35	90.42
	8/24/2015	22	<1.0	43	297	PVC Blocked	NA
	11/16/2015	2.8	<1.0	24.8	53.6	5.62	88.15
	2/16/2016	<1.0	<1.0	1.6	<1.0	4.43	89.34
	5/10/2016	<1.0	<1.0	<1.0	2.2	2.65	91.12
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.30	90.47
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.65	90.08
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.53	90.20
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.64	90.09
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.53	90.20
	11/17/2017	<1.00	<1.00	<1.00	<1.00	4.21	89.52
MW11	6/18/2008	1.3	2.5	47	300	5.48	NA
	8/26/2008	<1.0	<1.0	<1.0	13	3.50	NA
	11/14/2008	<1.0	<1.0	31	37	4.61	NA
	2/17/2009	<1.0	<1.0	72	88	4.78	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	5.54	NA
	8/26/2009	<1.0	<1.0	60	72	1.77	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/18/2009	<1.0	2.4	43	130	5.25	NA
	2/4/2010	<1.0	<1.0	5.9	19	5.20	NA
	5/19/2010	<1.0	<1.0	19	64	3.09	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	3.94	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.54	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.46	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.54	NA
	8/19/2011	<1.0	<1.0	1.5	2.4	5.34	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.08	NA
	MW11 destroyed as of 2/17/2012						
MW11R	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.60	88.99
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.12	89.47
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.26	89.33
	5/13/2013	<1.0	<1.0	12	110	2.83	90.76
	8/29/2013	<1.0	<1.0	<1.0	<1.0	5.00	88.59
	11/7/2013	<1.0	<1.0	4.7	49.2	3.47	90.12
	11/18/2013	Surveyed - Not Sampled				3.65	90.08
	2/18/2014	<1.0	<1.0	22	190	3.34	90.25
	5/13/2014	<1.0	<1.0	10.7	76.3	2.76	90.97
	7/29/2014	<1.0	<1.0	1.5	8.7	4.23	89.50
	11/5/2014	<1.0	<1.0	4.6	29.1	4.29	89.44
	2/18/2015	<1.0	<1.0	<1.0	<1.0	3.72	90.01
	5/6/2015	<1.0	<1.0	6.7	36.4	3.16	90.57
	8/24/2015	<1.0	<1.0	26.6	164	5.38	88.35
	11/16/2015	<1.0	<1.0	8.1	24.1	5.39	88.34
	2/16/2016	<1.0	<1.0	9.3	29	4.16	89.57
	5/10/2016	<1.0	<1.0	4.4	12.4	2.46	91.27
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.05	90.68
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.33	90.30
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.18	90.45
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.32	90.31
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.12	90.51
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.87	89.76
MW12	8/26/2008	250	<1.0	45	250	3.33	NA
	11/14/2008	34	<1.0	22	110	3.63	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/17/2009	19	<1.0	6.6	67	3.81	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	2.62	NA
	8/26/2009	<1.0	<1.0	<1.0	2.4	1.78	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.28	NA
	2/4/2010	2.2	<1.0	<1.0	<1.0	5.22	NA
	5/19/2010	17	<1.0	1.7	8.4	3.03	NA
	8/13/2010	2	<1.0	<1.0	<1.0	4.03	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.55	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.45	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.54	NA
	8/19/2011	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.90	89.60
MW13	8/26/2008	74	1.6	18	340	3.15	NA
	11/14/2008	<1.0	<1.0	<1.0	<1.0	4.43	NA
	2/17/2009	21	<1.0	4.2	43	4.38	NA
	5/15/2009	17	<1.0	<1.0	<1.0	3.56	NA
	8/26/2009	<1.0	<1.0	<1.0	<1.0	5.26	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.15	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.15	NA
	5/19/2010	11	<1.0	<1.0	<1.0	2.89	NA
	8/13/2010	2.9	<1.0	<1.0	<1.0	3.85	NA
	11/11/2010	1.2	<1.0	<1.0	<1.0	4.38	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.25	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.35	NA
	8/19/2011	15	<1.0	16	14	5.20	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.91	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.07	NA
MW13 destroyed as of 2/18/2012							
MW13R	8/21/2012	1.3	<1.0	<1.0	6.3	4.72	88.23
	11/29/2012	<1.0	<1.0	<1.0	12	4.21	88.74
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.42	88.53
	5/13/2013	<1.0	<1.0	33	37	PVC Bent	NA
	8/29/2013	<1.0	<1.0	4	<1.0	PVC Bent	NA
	11/7/2013	<1.0	<1.0	23.2	104	3.31	89.74
	11/18/2013	Surveyed - Not Sampled				3.39	89.69



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/18/2014	<1.0	<1.0	6.6	3.2	3.15	89.90
	5/13/2014	<1.0	<1.0	20.8	21.9	2.36	90.72
	7/29/2014	1.1	<1.0	20.3	77.4	4.06	89.02
	11/5/2014	<1.0	<1.0	5.4	3.1	3.62	89.46
	2/18/2015	<1.0	<1.0	<1.0	<1.0	3.75	89.33
	5/6/2015	<1.0	<1.0	23.4	12.6	2.91	90.17
	8/24/2015	<1.0	<1.0	10	2.4	7.13	85.95
	11/16/2015	<1.0	<1.0	<1.0	<1.0	5.22	87.86
	2/16/2016	<1.0	<1.0	5.5	18.8	3.95	89.13
	5/10/2016	<1.0	<1.0	1.1	2.7	2.18	90.90
	8/9/2016	<1.00	<1.00	2.54	<1.00	2.90	90.18
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.24	89.84
	2/6/2017	<1.00	<1.00	1.42	<1.00	3.13	89.95
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.14	89.94
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.09	89.99
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.75	89.33
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MW14	8/26/2008	22	<1.0	1.7	50	3.38	NA
	11/14/2008	2.3	<1.0	8.1	21	4.58	NA
	2/17/2009	14	<1.0	37	42	4.61	NA
	5/15/2009	3.7	<1.0	8.6	5.1	3.43	NA
	8/26/2009	5.9	<1.0	6.8	16	5.01	NA
	11/18/2009	18	<1.0	35	140	5.38	NA
	2/4/2010	8	<1.0	12	3.8	5.50	NA
	5/19/2010	6.4	<1.0	5.1	<1.0	3.22	NA
	8/13/2010	2.3	<1.0	<1.0	<1.0	4.14	NA
	11/11/2010	<1.0	<1.0	2.4	<1.0	4.75	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.68	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.65	NA
	8/19/2011	33	<1.0	2.3	<1.0	5.53	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.24	NA
	2/17/2012	<1.0	<1.0				
MW14 destroyed as of 2/18/2012							
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MW14R	8/21/2012	4.6	<1.0	6.8	38	6.90	88.99
	11/29/2012	<1.0	<1.0	<1.0	79	6.51	89.38
	2/28/2013	<1.0	<1.0	<1.0	67	6.64	83.25



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/13/2013	2.1	<1.0	<1.0	<1.0	5.06	90.83
	8/29/2013	7.5	<1.0	<1.0	<1.0	7.25	88.64
	11/7/2013	<1.0	<1.0	<1.0	<1.0	5.76	90.13
	11/18/2013	Surveyed - Not Sampled				5.10	90.15
	2/18/2014	11.8	<1.0	18.8	53.1	5.58	90.31
	5/13/2014	5.6	<1.0	7	16.3	5.04	91.17
	7/29/2014	<1.0	<1.0	<1.0	<1.0	7.62	88.59
	11/5/2014	<1.0	<1.0	<1.0	<1.0	6.76	89.45
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.47	89.74
	5/6/2015	<1.0	<1.0	<1.0	<1.0	6.04	90.17
	8/24/2015	1.4	<1.0	1	<1.0	7.88	88.33
	11/16/2015	23.3	<1.0	3.9	17.6	8.07	88.14
	2/16/2016	8.6	<1.0	2.8	1.9	6.68	89.53
	5/10/2016	<1.0	<1.0	<1.0	<1.0	4.93	91.28
	8/9/2016	2.10	<1.00	<1.00	<1.00	5.58	90.63
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.01	90.23
	2/6/2017	1.45	<1.00	<1.00	<1.00	5.83	90.41
	5/15/2017	<1.00	<1.00	<1.00	<1.00	5.93	90.31
	8/18/2017	76.9	<1.00	<1.00	<1.00	5.74	90.50
	11/17/2017	<1.00	<1.00	2.20	7.93	6.36	89.88
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MW15	8/26/2008	52	120	120	1900	3.74	NA
	11/14/2008	62	22	89	1100	4.88	NA
	2/17/2009	340	310	76	960	4.96	NA
	5/15/2009	68	11	29	2300	3.48	NA
	8/26/2009	88	<1.0	64	260	5.31	NA
	11/18/2009	220	<1.0	74	190	5.65	NA
	2/4/2010	240	<1.0	74	170	5.65	NA
	5/19/2010	110	<1.0	36	95	3.49	NA
	8/13/2010	4.6	2.7	8.8	37	4.30	NA
	11/11/2010	9.8	<1.0	6.2	15	4.90	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.75	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.88	NA
	8/19/2011	150	<1.0	71	95	5.75	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.45	NA

MW15 destroyed as of 12/1/2011



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
MW15R	8/21/2012	1.3	5.1	4.4	22	7.00	89.11
	11/29/2012	<1.0	<1.0	<1.0	22	6.33	89.78
	2/28/2013	<1.0	<1.0	<1.0	<1.0	6.47	89.64
	5/13/2013	2.5	2.2	2.1	25	4.96	91.15
	8/29/2013	2.2	<1.0	<1.0	6.1	7.04	89.07
	11/7/2013	<1.0	<1.0	<1.0	3	5.60	90.51
	11/18/2013	Surveyed - Not Sampled				6.20	90.43
	2/18/2014	<1.0	1.7	1.8	20.5	5.57	90.54
	5/13/2014	<1.0	<1.0	<1.0	13.9	5.21	91.42
	7/29/2014	<1.0	1.3	4.2	51.3	4.71	91.92
	11/5/2014	<1.0	<1.0	<1.0	<1.0	6.91	89.72
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.60	90.03
	5/6/2015	<1.0	<1.0	<1.0	<1.0	5.71	90.92
	8/24/2015	<1.0	<1.0	<1.0	<1.0	7.87	88.76
	11/16/2015	<1.0	<1.0	<1.0	<1.0	8.04	88.59
	2/16/2016	<1.0	<1.0	<1.0	<1.0	6.88	89.75
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.00	91.63
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.60	91.03
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.01	90.60
	2/6/2017	<1.00	<1.00	<1.00	<1.00	5.92	90.69
	5/15/2017	<1.00	<1.00	<1.00	<1.00	5.95	90.66
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.03	90.58
	11/17/2017	<1.00	<1.00	<1.00	<1.00	6.85	89.76
MW16	1/23/2009	<1.0	<1.0	<1.0	<1.0	4.78	NA
	2/17/2009	<1.0	<1.0	<1.0	<1.0	4.85	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.95	NA
	8/26/2009	6.3	<1.0	76	3.8	5.72	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.52	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.54	NA
	5/19/2010	<1.0	<1.0	1	<1.0	3.19	NA
	8/13/2010	<1.0	<1.0	8.8	<1.0	4.25	NA
	11/11/2010	<1.0	<1.0	5.6	<1.0	4.75	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.64	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.69	NA
	8/19/2011	1.7	<1.0	4.8	3.6	5.58	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.21	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.28	NA
	5/21/2012	<1.0	<1.0	<1.0	<1.0	4.24	NA
	8/21/2012	1.3	<0.88	3.1	24	4.97	NA
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.51	NA
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.62	NA
	5/13/2013	<1.0	<1.0	<1.0	<1.0	3.11	NA
	8/29/2013	<1.0	<1.0	<1.0	3.4	5.39	NA
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.85	NA
	2/18/2014	<1.0	<1.0	<1.0	<1.0	NM	NA
	5/13/2014	<1.0	<1.0	<1.0	<1.0	NM	NA
	7/29/2014	<1.0	<1.0	<1.0	7.8	NM	NA
	11/5/2014	<1.0	<1.0	<1.0	4.9	NM	NA
	5/6/2015	<1.0	<1.0	<1.0	<1.0	3.22	90.14
	8/24/2015	1.5	<1.0	1.5	4.3	NM	NA
	11/16/2015	<1.0	<1.0	<1.0	<1.0	NM	NA
	2/16/2016	<1.0	<1.0	<1.0	<1.0	4.35	89.01
	5/10/2016	<1.0	<1.0	<1.0	<1.0	2.55	90.81
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.29	90.07
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.70	89.70
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.56	89.84
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.65	89.75
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.54	89.86
	11/17/2017	<1.00	<1.00	<1.00	<1.00	4.33	89.07
<hr/>							
MW17	1/23/2009	120	<1.0	43	140	4.65	88.52
	2/17/2009	71	<1.0	13	110	4.58	88.44
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.47	89.55
	8/26/2009	69	<1.0	29	200	5.35	87.67
	11/18/2009	8.4	<1.0	5.7	17	5.25	87.77
	2/4/2010	86	<1.0	16	11	5.19	87.83
	5/19/2010	330	<1.0	36	23	2.94	90.08
	8/13/2010	76	<1.0	8.8	9	3.98	89.04
	11/11/2010	49	<1.0	5.9	47	4.48	88.54
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.36	88.66
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.47	90.55
	8/19/2011	62	<1.0	2.8	43	5.28	87.74
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.98	88.04



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/17/2012	2.2	<1.0	<1.0	<1.0	4.04	88.98
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.95	89.07
	8/21/2012	1.5	<1.0	<1.0	12	4.55	88.33
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.12	88.76
	2/28/2013	21	<1.0	<1.0	22	4.22	88.66
	5/13/2013	79	<1.0	35	110	2.76	90.12
	8/29/2013	Inaccessible - Not Sampled				Inaccessible	NA
	11/7/2013	40.1	<1.0	71.4	350	3.48	89.40
	11/18/2013	Surveyed - Not Sampled				3.65	89.39
	2/18/2014	88.4	<1.0	60.2	337	3.27	89.61
	5/13/2014	131	<1.0	62.4	360	2.64	90.40
	7/29/2014	8.2	<1.0	26.3	33.5	4.38	88.66
	11/5/2014	81.8	<1.0	26.4	357	4.31	88.73
	2/18/2015	1.2	<1.0	1	73.7	3.98	89.06
	5/6/2015	68.7	<1.0	22.8	167	3.10	89.94
	8/24/2015	24.3	<1.0	23.3	<1.0	5.54	87.50
	11/16/2015	50.7	<1.0	<1.0	<1.0	5.40	87.64
	2/16/2016	24.6	<1.0	<1.0	<1.0	4.17	88.87
	5/10/2016	10.8	<1.0	<1.0	<1.0	2.40	90.64
	8/9/2016	12.1	<1.00	<1.00	<1.00	3.13	89.91
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.50	89.57
	2/6/2017	16.5	<1.00	<1.00	<1.00	3.45	89.62
	5/15/2017	38.7	<1.00	<1.00	<1.00	3.50	89.57
	8/18/2017	75.3	<1.00	<1.00	<1.00	3.50	89.57
	11/17/2017	34.1	<1.00	<1.00	<1.00	4.10	88.97
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MW18	2/19/2009	150	<1.0	<1.0	<1.0	NM	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.60	88.56
	8/26/2009	19	<1.0	<1.0	<1.0	5.50	86.66
	11/18/2009	12	<1.0	<1.0	<1.0	5.10	87.06
	2/4/2010	<1.0	<1.0	<1.0	<1.0	4.97	87.19
	5/19/2010	<1.0	<1.0	<1.0	<1.0	2.77	89.39
	8/13/2010	19	<1.0	<1.0	<1.0	3.98	88.18
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.39	87.77
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.23	87.93
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.35	89.81
	8/19/2011	14	<1.0	<1.0	<1.0	5.09	87.07



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.77	87.39
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.83	88.33
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.76	88.40
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.53	87.70
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.13	88.10
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.20	88.03
	5/13/2013	6.1	<1.0	<1.0	<1.0	2.78	89.45
	8/29/2013	Inaccessible - Not Sampled				Inaccessible	NA
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.57	88.72
	11/18/2013	Surveyed - Not Sampled				3.45	88.67
	2/18/2014	3.9	<1.0	4	5.9	3.28	88.95
	5/13/2014	1.2	<1.0	<1.0	<1.0	2.37	89.75
	7/29/2014	1.7	<1.0	<1.0	<1.0	-0.73	92.85
	11/5/2014	<1.0	<1.0	<1.0	<1.0	4.03	88.09
	2/18/2015	<1.0	<1.0	<1.0	<1.0	3.67	88.45
	5/6/2015	15.6	<1.0	<1.0	<1.0	2.70	89.42
	8/24/2015	<1.0	<1.0	<1.0	<1.0	5.46	86.66
	11/16/2015	1.9	<1.0	<1.0	<1.0	5.26	86.86
	2/16/2016	6	<1.0	4.8	4.4	3.97	88.15
	5/10/2016	1.7	<1.0	<1.0	<1.0	2.15	89.97
	8/9/2016	1.15	<1.00	<1.00	<1.00	3.03	89.09
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.28	88.82
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.09	89.01
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.21	88.89
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.03	89.07
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.71	88.39
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MW19	2/19/2009	<1.0	1.6	<1.0	<1.0	NM	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.39	89.04
	8/26/2009	<1.0	<1.0	<1.0	<1.0	5.29	87.14
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.28	87.15
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.06	87.37
	5/19/2010	<1.0	<1.0	<1.0	<1.0	2.69	89.56
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.01	88.42
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.44	87.99
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.33	88.10
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.51	89.92



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.18	87.25
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.80	87.63
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.89	88.54
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.38	88.60
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.35	87.95
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.06	88.24
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.13	88.17
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.68	89.62
	8/28/2013	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.58	88.80
MW20	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.82	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.71	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.92	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	5.21	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	5.11	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	3.13	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	4.33	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.71	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.92	NA
	MW20 destroyed as of 2/18/2012						
MW20R	8/21/2012	<0.88	<0.88	<0.88	<0.88	6.67	88.00
	11/29/2012	<1.0	<1.0	<1.0	<1.0	6.20	88.47
	2/28/2013	<1.0	<1.0	<1.0	<1.0	6.25	88.42
	5/13/2013	<1.0	<1.0	<1.0	<1.0	4.75	88.92
	8/29/2013	<1.0	<1.0	<1.0	<1.0	6.89	87.78
	11/18/2013	Surveyed - Not Sampled				5.20	89.15
	2/18/2014	<4.0	<4.0	<4.0	<4.0	5.78	89.05
	5/13/2014	<1.0	<1.0	<1.0	<1.0	4.67	90.16
	7/29/2014	<1.0	<1.0	<1.0	<1.0	6.18	88.65
	11/5/2014	<1.0	<1.0	<1.0	<1.0	6.41	88.42
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.05	88.78
	5/6/2015	<1.0	<1.0	<1.0	<1.0	5.13	89.70
	8/24/2015	<1.0	<1.0	<1.0	<1.0	7.35	87.48
	11/16/2015	<1.0	<1.0	<1.0	<1.0	7.50	87.33
	2/16/2016	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/10/2016	<1.0	<1.0	<1.0	<1.0	4.39	90.44
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.09	89.74
	11/4/2016	<1.00	<1.00	<1.00	<1.00	5.52	89.31
	2/6/2017	<1.00	<1.00	<1.00	<1.00	5.42	89.41
	5/15/2017	<1.00	<1.00	<1.00	<1.00	5.48	89.35
	8/18/2017	<1.00	<1.00	<1.00	<1.00	5.47	89.36
	11/17/2017	<1.00	<1.00	<1.00	<1.00	6.12	88.71
MW21	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.47	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.28	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.30	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.84	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.75	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.75	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	6.65	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.29	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.38	NA
	MW21 destroyed as of 2/18/2012						
MW21R	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.75	88.51
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.24	89.02
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.25	89.01
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.81	90.45
	8/29/2013	<1.0	<1.0	<1.0	<1.0	5.10	88.16
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.53	89.73
	11/18/2013	Surveyed - Not Sampled				3.69	89.70
	2/18/2014	<1.0	<1.0	<1.0	<1.0	3.36	89.90
	5/13/2014	<1.0	<1.0	<1.0	<1.0	2.59	90.80
	7/29/2014	<1.0	<1.0	<1.0	<1.0	4.31	89.08
	11/5/2014	<1.0	<1.0	<1.0	<1.0	3.32	90.07
	2/18/2015	<1.0	<1.0	<1.0	<1.0	4.03	89.36
	5/6/2015	<1.0	<1.0	<1.0	<1.0	3.13	90.26
	8/24/2015	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/16/2015	<1.0	<1.0	<1.0	<1.0	5.54	87.85
	2/16/2016	<1.0	<1.0	<1.0	<1.0	4.32	89.07
	5/10/2016	<1.0	<1.0	<1.0	<1.0	2.42	90.97
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.15	90.24



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.45	89.84
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.36	89.93
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.38	89.91
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.41	89.88
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.99	89.30
MW22	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.35	87.85
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.20	90.00
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.31	88.89
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.78	88.42
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.67	88.53
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.71	90.49
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.57	87.63
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.16	88.04
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.28	88.92
	5/21/2012	<1.0	<1.0	<1.0	<1.0	4.25	88.95
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.95	88.15
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.42	88.68
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.50	88.60
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.99	90.11
	8/29/2013	Inaccessible - Not Sampled				Inaccessible	NA
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.70	90.55
	11/18/2013	Surveyed - Not Sampled				3.86	89.11
	2/18/2014	<1.0	<1.0	<1.0	<1.0	4.86	89.39
	5/13/2014	<1.0	<1.0	<1.0	<1.0	2.75	90.22
	7/29/2014	<1.0	<1.0	<1.0	<1.0	4.61	88.36
	11/5/2014	<1.0	<1.0	<1.0	<1.0	3.46	89.51
	2/18/2015	<1.0	<1.0	<1.0	<1.0	4.26	NA
	5/6/2015	<1.0	<1.0	<1.0	<1.0	3.27	NA
	8/24/2015	<1.0	<1.0	<1.0	<1.0	5.91	NA
	11/16/2015	<1.0	<1.0	<1.0	<1.0	5.77	NA
	2/16/2016	<1.0	<1.0	<1.0	<1.0	4.48	NA
	5/10/2016	<1.0	<1.0	<1.0	<1.0	2.65	NA
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.50	NA
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.69	NA
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.58	NA
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.54	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.54	NA
	11/17/2017	<1.00	<1.00	<1.00	<1.00	4.26	NA
MW23	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.35	86.60
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.01	89.14
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.39	87.76
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.74	87.41
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.60	87.55
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.71	89.44
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.48	86.67
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.03	87.12
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.20	87.95
	5/21/2012	<1.0	<1.0	<1.0	<1.0	4.17	87.98
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.65	87.37
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.27	87.75
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.42	87.60
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.90	89.12
	8/28/2013	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.71	88.30
MW24	2/4/2010	<1.0	<1.0	<1.0	<1.0	4.90	86.72
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.68	87.94
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.07	87.55
	11/11/2010	Not Found - Not Sampled				Not Found	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.27	87.36
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.46	89.17
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.03	86.60
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.73	86.90
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.86	87.77
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.84	87.79
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.20	87.19
	11/29/2012	<1.0	<1.0	<1.0	<1.0	3.82	87.57
	2/28/2013	<1.0	<1.0	<1.0	<1.0	3.93	87.46
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.46	88.93
	8/28/2013	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.33	88.10



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
MW25	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.83	NA
	5/6/2015	<1.0	<1.0	<1.0	<1.0	5.88	NA
	8/24/2015	<1.0	<1.0	<1.0	<1.0	8.49	NA
	11/16/2015	<1.0	<1.0	2.3	<1.0	8.26	NA
	2/16/2016	<1.0	<1.0	<1.0	<1.0	7.07	NA
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.27	NA
	8/9/2016	<1.00	<1.00	<1.00	<1.00	6.02	NA
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.40	NA
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.29	NA
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.32	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.27	NA
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.96	NA

COGCC Allowable Levels	5	1000	700	1400
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Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

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



November 27, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A **Project Number - KMG07341/WO #88013**

Attached are your analytical results for KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A received by Origins Laboratory, Inc. November 17, 2017. This project is associated with Origins project number Y711282-01.

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y711282-01	Water	November 17, 2017 12:00	11/17/2017 16:26
MW03R	Y711282-02	Water	November 17, 2017 12:05	11/17/2017 16:26
MW04R	Y711282-03	Water	November 17, 2017 12:10	11/17/2017 16:26
MW06R2	Y711282-04	Water	November 17, 2017 12:15	11/17/2017 16:26
MW07R	Y711282-05	Water	November 17, 2017 12:20	11/17/2017 16:26
MW08R	Y711282-06	Water	November 17, 2017 12:25	11/17/2017 16:26
MW10R	Y711282-07	Water	November 17, 2017 12:30	11/17/2017 16:26
MW11R	Y711282-08	Water	November 17, 2017 12:35	11/17/2017 16:26
MW13R	Y711282-09	Water	November 17, 2017 12:40	11/17/2017 16:26
MW14R	Y711282-10	Water	November 17, 2017 12:45	11/17/2017 16:26
MW15R	Y711282-11	Water	November 17, 2017 12:50	11/17/2017 16:26
MW16	Y711282-12	Water	November 17, 2017 12:55	11/17/2017 16:26
MW17	Y711282-13	Water	November 17, 2017 13:00	11/17/2017 16:26
MW18	Y711282-14	Water	November 17, 2017 13:05	11/17/2017 16:26

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW20R	Y711282-15	Water	November 17, 2017 13:10	11/17/2017 16:26
MW21R	Y711282-16	Water	November 17, 2017 13:15	11/17/2017 16:26
MW22	Y711282-17	Water	November 17, 2017 13:20	11/17/2017 16:26
MW25	Y711282-18	Water	November 17, 2017 13:25	11/17/2017 16:26


Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A



LABORATORY, INC

12

Y71282

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

Client: LT Environmental, Inc.			Project Manager: Brian Sulzberger					
Project: KMG - Avery 10-27A, Savul 15-27, Tuteur 9-			Project Number: KMG07341/WO #88013337					
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01R	Water	11/17/17	1200	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
02-001	MW03R	Water		1205		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
03-001	MW04R	Water		1210		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
04-001	MW06R2	Water		1215		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
05-001	MW07R	Water		1230		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
06-001	MW08R	Water		1235		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
07-001	MW10R	Water		1230		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
08-001	MW11R	Water		1235		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
09-001	MW13R	Water		1240		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
10-001	MW14R	Water		1245		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
11-001	MW15R	Water		1250		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample

Relinquished By: *[Signature]* Date / Time: 11/17/17 1626

Received By: *[Signature]* Date / Time: 11-17-17 1626

Relinquished By: _____ Date / Time: _____

Received By: _____ Date / Time: _____

Temperature on Receipt: 15.4

Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A



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

12-001	MW16	Water	11/17/17	1355	FD	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
13-001	MW17	Water	11/17/17	1300	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
14-001	MW18	Water	11/17/17	1305	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
15-001	MW20R	Water	11/17/17	1310	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
16-001	MW21R	Water	11/17/17	1315	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
17-001	MW22	Water	11/17/17	1320	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
18-001	MW25	Water	11/17/17	1325	✓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample

Temperature on Receipt: 15.4
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

Relinquished By: [Signature] Date / Time: 11/17/17 1626
Received By: [Signature] Date / Time: 11-17-17 1626

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4711282

Client: LTE

Client Project ID: KMG-Avery/Savul

Checklist Completed by: Dan Le

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

Date/time completed: 11-21-12 1130

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 15.4 °C / °C / °C (Describe)

Thermometer ID: 7003

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<u>sampled same day</u>
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) Dan Le

11-21-12 1130
Date/Time Reviewed

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW01R

11/17/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711282-01 (Water)

BTEX by EPA 8260C

Benzene	76.5	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	
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	99.9 %	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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW03R

11/17/2017 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW04R

11/17/2017 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	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	99.5 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW06R2

11/17/2017 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y711282-04 (Water)

BTEX by EPA 8260C

Benzene	5.92	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	29.1	1.00	"	"	"	"	"	
Xylenes, total	16.6	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW07R

11/17/2017 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-05 (Water)

BTEX by EPA 8260C

Benzene	2.17	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	
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	98.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW08R

11/17/2017 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	3.14	1.00	"	"	"	"	"	
Xylenes, total	40.1	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW10R

11/17/2017 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW11R

11/17/2017 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW13R

11/17/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114			"	"	"	

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW14R

11/17/2017 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	2.20	1.00	"	"	"	"	"	
Xylenes, total	7.93	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"	"	

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW15R

11/17/2017 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114			"	"	"	

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW16

11/17/2017 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW17

11/17/2017 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-13 (Water)

BTEX by EPA 8260C

Benzene	34.1	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114			"	"	"	

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW18

11/17/2017 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114			"	"	"

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW20R

11/17/2017 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	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	99.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114			"	"	"	

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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW21R

11/17/2017 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW22

11/17/2017 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	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	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW25

11/17/2017 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y711282-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7K2005	11/20/2017	11/21/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.1 %	84-121			"	"	"
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)										
Blank (B7K2005-BLK1)					Prepared: 11/20/2017 Analyzed: 11/20/2017					
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	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)

Blank (B7K2005-BLK2)

Prepared: 11/20/2017 Analyzed: 11/20/2017

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	62		"	62.5	99.6		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.7		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)

LCS (B7K2005-BS1)

Prepared: 11/20/2017 Analyzed: 11/20/2017

Benzene	51.4	1.00	ug/L	50.0		103	73.3-129			
Toluene	49.2	1.00	"	50.0		98.5	76.2-123			
Ethylbenzene	52.6	1.00	"	50.0		105	73.6-130			
m,p-Xylene	93.4	2.00	"	100		93.4	76.1-126			
o-Xylene	52.7	1.00	"	50.0		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)

LCS (B7K2005-BS2)

Prepared: 11/20/2017 Analyzed: 11/20/2017

Benzene	49.8	1.00	ug/L	50.0		99.6	73.3-129			
Toluene	47.2	1.00	"	50.0		94.5	76.2-123			
Ethylbenzene	50.5	1.00	"	50.0		101	73.6-130			
m,p-Xylene	89.5	2.00	"	100		89.5	76.1-126			
o-Xylene	51.3	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)

Matrix Spike (B7K2005-MS1)		Source: Y711281-04			Prepared: 11/20/2017 Analyzed: 11/20/2017					
Benzene	53.2	1.00	ug/L	50.0	ND	106	74-130			
Toluene	50.2	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	53.4	1.00	"	50.0	ND	107	76-132			
m,p-Xylene	95.5	2.00	"	100	ND	95.5	69-139			
o-Xylene	54.7	1.00	"	50.0	ND	109	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)

Matrix Spike (B7K2005-MS2)		Source: Y711281-05			Prepared: 11/20/2017 Analyzed: 11/21/2017					
Benzene	45.2	1.00	ug/L	50.0	ND	90.3	74-130			
Toluene	42.4	1.00	"	50.0	ND	84.8	73-131			
Ethylbenzene	45.0	1.00	"	50.0	ND	90.1	76-132			
m,p-Xylene	80.0	2.00	"	100	ND	80.0	69-139			
o-Xylene	46.4	1.00	"	50.0	ND	92.9	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B7K2005 - EPA 5030B (Water)

Matrix Spike Dup (B7K2005-MSD1)		Source: Y711281-04			Prepared: 11/20/2017 Analyzed: 11/20/2017					
Benzene	46.7	1.00	ug/L	50.0	ND	93.4	74-130	12.9	20	
Toluene	43.6	1.00	"	50.0	ND	87.1	73-131	14.1	20	
Ethylbenzene	46.7	1.00	"	50.0	ND	93.4	76-132	13.3	20	
m,p-Xylene	82.8	2.00	"	100	ND	82.8	69-139	14.3	20	
o-Xylene	48.1	1.00	"	50.0	ND	96.1	74-131	13.0	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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 B7K2005 - EPA 5030B (Water)

Matrix Spike Dup (B7K2005-MSD2)		Source: Y711281-05			Prepared: 11/20/2017 Analyzed: 11/21/2017					
Benzene	49.0	1.00	ug/L	50.0	ND	97.9	74-130	8.07	20	
Toluene	46.2	1.00	"	50.0	ND	92.3	73-131	8.54	20	
Ethylbenzene	49.0	1.00	"	50.0	ND	98.0	76-132	8.46	20	
m,p-Xylene	87.7	2.00	"	100	ND	87.7	69-139	9.20	20	
o-Xylene	51.2	1.00	"	50.0	ND	102	74-131	9.67	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	84-114			

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Tuteur 9-27A

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.

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