

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

<b>Well Name</b>	<b>Date</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>	<b>Depth Water/ (Product Thickness) (ft bgs)</b>	<b>Relative GW Elev. (ft)</b>
GW01	9/25/2009	15000	21000	290	7200	9.0	NA
MW01	12/17/2009	19000	23000	570	7600	8.38	88.05
	3/12/2010	34000	44000	460	5100	10.83	85.60
	6/15/2010	40000	67000	410	5200	9.08	87.35
	9/16/2010	22000	34000	830	8900	8.83	87.60
	12/7/2010	20000	31000	670	7900	9.84	86.59
	3/15/2011	34000	47000	390	5200	11.24	85.19
	6/27/2011	Product - Not Sampled				11.47 (0.50)	84.96
	9/14/2011	27000	42000	1000	12000	9.17	87.26
	12/16/2011	21000	36000	880	12000	9.68	86.75
	3/7/2012	19000	38000	600	10000	10.68	85.75
	6/25/2012	6400	16000	390	5100	11.44	84.99
	9/24/2012	11000	17000	330	4800	11.78	84.65
	12/28/2012	Product - Not Sampled				14.33 (2.10)	82.10
	3/28/2013	Product - Not Sampled				15.73 (1.90)	80.70
	6/5/2013	Product - Not Sampled				13.37 (0.16)	83.06
	9/5/2013	6600	16000	340	6400	11.68	84.75
	12/3/2013	Surveyed - Not Sampled				9.85	86.55
	12/17/2013	15000	31000	325	9430	10.04	86.39
	3/4/2014	14500	30400	696	10100	10.64	85.79
	6/5/2014	15200	31500	594	8520	9.93	86.47
	9/24/2014	16400	35500	665	8710	8.60	87.80
	12/10/2014	8570	16900	313	4640	9.62	86.78
	3/12/2015	13300	29900	565	7280	9.91	86.49
	6/18/2015	13200	37400	666	8690	8.73	87.67
	9/2/2015	10700	36900	718	9070	8.33	88.07
	12/10/2015	6910	24400	510	5600	8.55	87.85
	3/2/2016	9030	40100	765	8840	9.01	87.39
	9/19/2016	2,960	7,400	<500	3,780	8.40	88.00
	12/15/2016	2,330	9,990	361	3,800	9.48	86.92
	3/20/2017	3,890	27,200	712	8,430	10.73	85.67
	6/12/2017	2,770	47,400	570	7,690	9.90	86.50
	9/29/2017	1,420	8,000	<500	3,550	9.50	86.90
	12/18/2017	1,310	13,800	516	4,710	10.21	86.19
	3/22/2018	2,380	36,000	674	10,300	11.51	88.69
	6/21/2018	1,550	30,800	700	9,100	11.12	89.08



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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)
	9/13/2018	1,170	25,500	704	9,270	10.18	90.02
MW02	12/17/2009	2100	3100	150	1400	8.99	87.19
	3/12/2010	160	160	57	100	10.61	85.57
	6/15/2010	390	900	24	170	8.97	87.21
	9/16/2010	23	1.5	38	4.4	8.56	87.62
	12/7/2010	89	70	13	24	9.60	86.58
	3/15/2011	77	23	100	11	11.04	85.14
	6/27/2011	1700	5700	560	2800	11.06	85.12
	9/14/2011	17	2.9	29	46	9.06	87.12
	12/16/2011	160	200	39	150	9.63	86.55
	3/7/2012	180	450	39	190	10.56	85.62
	6/25/2012	14	<1.0	27	12	11.06	85.12
	9/24/2012	17	2.9	7.2	<1.0	11.26	84.92
	12/28/2012	14	1.2	5.5	<1.0	12.91	83.27
	3/28/2013	<1.0	<1.0	<1.0	25	13.96	82.22
	6/5/2013	190	64	43	270	12.95	83.23
	9/5/2013	250	5.8	18	210	11.52	84.66
	12/3/2013	Surveyed - Not Sampled				9.84	86.53
	12/17/2013	219	41.9	16.8	397	9.84	86.34
	3/4/2014	251	28.9	66.7	601	10.40	85.78
	6/5/2014	126	20.2	93.3	827	10.00	86.37
	9/24/2014	37.8	<10.0	30.6	184	8.65	87.72
	12/10/2014	3.8	<1.0	21.6	24.5	9.65	86.72
	3/12/2015	38.4	1.4	63.4	373	9.97	86.40
	6/18/2015	31.6	8.5	104	867	8.67	87.70
	9/2/2015	18.4	32.8	27.4	260	8.28	88.09
	12/10/2015	7.3	<4.0	27.3	170	8.57	87.80
	3/2/2016	15.5	12.8	194	1240	9.01	87.36
	9/19/2016	<4.00	<4.00	<4.00	<4.00	8.40	87.97
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.39	86.98
	3/20/2017	<1.00	<1.00	3.28	3.62	10.73	85.64
	6/12/2017	<1.00	5.47	20.6	213	9.87	86.50
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.47	86.90
	12/18/2017	<1.00	1.22	<1.00	5.77	10.16	86.21
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	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)
	9/13/2018	Insufficient Water - Not Sampled				10.41	89.75
MW03	12/17/2009	<1.0	3.4	<1.0	1.3	8.72	87.03
	3/12/2010	<1.0	<1.0	<1.0	<1.0	10.36	85.39
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.76	86.99
	9/16/2010	<1.0	<1.0	<1.0	<1.0	8.36	87.39
	12/7/2010	<1.0	<1.0	<1.0	<1.0	9.36	86.39
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.80	84.95
	6/27/2011	2.5	14	1.0	8.1	10.86	84.89
	9/14/2011	<1.0	<1.0	<1.0	<1.0	8.82	86.93
	12/16/2011	1.3	3.8	<1.0	2.3	9.36	86.39
	3/7/2012	<1.0	1.8	<1.0	<1.0	10.36	85.39
	6/25/2012	<1.0	<1.0	<1.0	<1.0	10.74	85.01
	9/24/2012	<1.0	1.3	<1.0	<1.0	10.99	84.76
	12/28/2012	Insufficient Water - Not Sampled				12.71	83.04
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Insufficient Water - Not Sampled				12.73	83.02
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.20	84.55
	12/3/2013	Surveyed - Not Sampled				9.53	86.39
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.53	86.22
	3/4/2014	<1.0	<1.0	<1.0	<1.0	10.15	85.60
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.72	86.20
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.32	87.60
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.45	86.47
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.73	86.19
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.41	87.51
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.03	87.89
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.34	87.58
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.70	87.22
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.12	87.80
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.20	86.72
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.61	85.31
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.63	86.29
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.33	86.59
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.91	86.01
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.74	88.84



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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)
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.86	89.72
MW04	12/17/2009	1.1	6.8	<1.0	7.4	8.14	87.37
	3/12/2010	<1.0	<1.0	<1.0	<1.0	10.29	85.22
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.19	87.32
	9/16/2010	<1.0	<1.0	<1.0	<1.0	7.94	87.57
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.96	86.55
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.38	85.13
	6/27/2011	2.6	8.2	<1.0	2.8	10.37	85.14
	9/14/2011	1.8	11	<1.0	6.9	8.45	87.06
	12/16/2011	<1.0	<1.0	<1.0	<1.0	10.16	85.35
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.94	85.57
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.95	84.56
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Insufficient Water - Not Sampled				10.77	84.74
	12/3/2013	Surveyed - Not Sampled				9.32	86.47
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.07	86.44
	3/4/2014	<1.0	<1.0	<1.0	<1.0	9.73	85.78
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.34	86.45
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.04	87.75
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.12	86.67
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.40	86.39
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.04	87.75
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.82	87.97
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.05	87.74
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.40	87.39
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.86	87.93
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.93	86.86
	3/20/2017	<4.00	<4.00	<4.00	<4.00	11.22	85.57
	6/12/2017	<1.00	<1.00	<1.00	<1.00	10.27	86.52
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.03	86.76
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.64	85.15
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	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)
	9/13/2018	Dry - Not Sampled				Dry	NA
MW05	12/17/2009	<1.0	5.4	<1.0	5.4	7.93	87.73
	3/12/2010	<1.0	<1.0	<1.0	<1.0	9.60	86.06
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.00	87.66
	9/16/2010	<1.0	<1.0	<1.0	<1.0	8.90	86.76
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.88	86.78
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.36	85.30
	6/27/2011	11	69	3.7	49	10.30	85.36
	9/14/2011	<1.0	8.3	<1.0	11	8.42	87.24
	12/16/2011	<1.0	<1.0	<1.0	<1.0	8.91	86.75
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.90	85.76
	6/25/2012	<1.0	<1.0	<1.0	<1.0	9.96	85.70
	9/24/2012	<1.0	2.2	<1.0	<1.0	10.40	85.26
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	1.1	16	<1.0	14	10.76	84.90
	12/3/2013	Surveyed - Not Sampled				9.05	86.79
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.08	86.58
	3/4/2014	<1.0	<1.0	<1.0	<1.0	9.74	85.92
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.18	86.66
	9/24/2014	<1.0	<1.0	<1.0	<1.0	7.85	87.99
	12/10/2014	<1.0	<1.0	<1.0	<1.0	8.92	86.92
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.12	86.72
	6/18/2015	<1.0	<1.0	<1.0	<1.0	7.84	88.00
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.58	88.26
	12/10/2015	<1.0	<1.0	<1.0	<1.0	7.84	88.00
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.25	87.59
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.70	88.14
	12/15/2016	<1.00	<1.00	<1.00	<1.00	8.76	87.08
	3/20/2017	<4.00	<4.00	<4.00	<4.00	10.02	85.82
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.14	86.70
	9/29/2017	<1.00	<1.00	<1.00	<1.00	8.78	87.06
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.49	86.35
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA



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	9/13/2018	Dry - Not Sampled				Dry	NA
MW06	3/12/2010	1500	13000	<1.0	<1.0	9.95	86.43
	6/15/2010	1700	28000	550	7300	8.60	87.78
	9/16/2010	680	15000	680	7800	8.50	87.88
	12/7/2010	1200	23000	690	9000	9.51	86.87
	3/15/2011	920	26000	500	7100	10.99	85.39
	6/27/2011	220	7600	310	3500	10.95	85.43
	9/14/2011	120	15000	570	6900	9.07	87.31
	12/16/2011	14	18000	700	8400	9.97	86.41
	3/7/2012	190	19000	430	6900	10.45	85.93
	6/25/2012	8.6	3200	240	4000	10.80	85.58
	9/24/2012	20	7100	310	3900	10.73	85.65
	12/28/2012	8.9	38	97	1500	12.40	83.98
	3/28/2013	61	200	57	1600	13.43	82.95
	6/5/2013	94	280	170	2200	12.91	83.47
	9/5/2013	81	350	230	2600	11.35	85.03
	12/3/2013	Surveyed - Not Sampled				9.53	86.84
	12/17/2013	<4.0	400	112	4700	9.76	86.62
	3/4/2014	5.1	1800	449	4450	10.34	86.04
	6/5/2014	<4.0	13.5	379	4580	9.59	86.78
	9/24/2014	<4.0	168	508	5580	8.26	88.11
	12/10/2014	<1.0	52.4	525	6350	9.29	87.08
	3/12/2015	<4.0	8.7	495	6050	9.53	86.84
	6/18/2015	<4.0	<4.0	232	2950	8.23	88.14
	9/2/2015	<4.0	<4.0	595	7230	7.98	88.39
	12/10/2015	<1.0	2.1	517	6020	8.21	88.16
	3/2/2016	<4.0	<4.0	314	4710	8.65	87.72
	9/19/2016	<1.00	<1.00	622	7,410	8.10	88.27
	12/15/2016	<1.00	<1.00	<1.00	6,800	9.12	87.24
	3/20/2017	<4.00	<4.00	629	6,250	10.33	86.03
	6/12/2017	<4.00	<4.00	420	5,100	9.49	86.87
	9/29/2017	<4.00	<4.00	487	4,870	9.14	87.22
	12/18/2017	<4.00	14.4	466	4,540	9.87	86.49
	3/22/2018	<4.00	<4.00	157	1,450	11.20	88.86
	6/21/2018	<4.00	<4.00	150	1,090	10.69	89.37
	9/13/2018	<4.00	<4.00	439	4,710	9.94	90.12



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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)
MW07	3/12/2010	9900	17000	600	8100	PVC Blocked	NA
	6/15/2010	28000	48000	450	5500	9.22	NA
	9/16/2010	21000	34000	1100	12000	9.05	NA
	12/7/2010	23000	40000	980	12000	10.03	NA
	3/15/2011	23000	44000	600	4700	10.29	NA
	6/27/2011	Product - Not Sampled				PVC Blocked	NA
	9/14/2011	24000	34000	640	15000	9.60	NA
	12/16/2011	20000	31000	920	16000	10.02	NA
	3/7/2012	15000	27000	510	12000	PVC Blocked	NA
	6/25/2012	12000	22000	490	10000	PVC Blocked	NA
	9/24/2012	Dry - Not Sampled				Dry	NA
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				Dry	NA
	MW07 destroyed as of 12/17/2013						
MW07R	3/4/2014	Insufficient Water - Not Sampled				10.63	NA
	3/27/2014	7840	22000	377	5300	NM	NA
	6/5/2014	8300	28800	540	6500	9.90	NA
	9/24/2014	12200	35900	725	10900	8.50	NA
	12/10/2014	7820	26000	444	7540	9.52	NA
	3/12/2015	6660	27300	<500	6920	9.74	NA
	6/18/2015	4420	19800	307	4820	8.68	NA
	9/2/2015	5520	27200	422	6110	8.27	NA
	12/10/2015	3160	20000	<500	3560	8.44	NA
	3/2/2016	3010	23700	338	4840	8.96	NA
	9/19/2016	1,390	18,600	363	5,540	8.38	NA
	12/15/2016	1,010	15,600	211	5,180	9.34	NA
	3/20/2017	868	11,400	480	6,730	10.55	NA
	6/12/2017	479	7,810	299	4,050	9.91	NA
	9/29/2017	308	4,310	266	3,660	9.48	NA
	12/18/2017	254	1,670	314	4,330	10.11	NA
	3/22/2018	114	324	171	2,450	11.67	89.00
6/21/2018	20,200	9,280	194	3,300	11.23	89.44	



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	9/13/2018	224	1,290	<200	1,980	10.49	90.18
MW08	4/27/2010	5.9	23	2.4	8.1	9.43	86.86
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.31	88.02
	9/16/2010	<1.0	<1.0	<1.0	<1.0	8.29	88.04
	12/7/2010	<1.0	<1.0	18	1.6	9.32	87.01
	3/15/2011	<1.0	<1.0	38	12	10.77	85.56
	6/27/2011	1.4	11	1.2	9.2	10.62	85.71
	9/14/2011	<1.0	<1.0	<1.0	<1.0	8.84	87.49
	12/16/2011	1.9	6.3	1.7	4.2	9.29	87.04
	3/7/2012	1.4	3.6	<1.0	2.0	10.49	86.04
	6/25/2012	<1.0	<1.0	<1.0	<1.0	10.74	85.79
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.79	85.74
	12/28/2012	<1.0	3.0	<1.0	<1.0	12.33	84.20
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.46	83.07
	6/5/2013	<1.0	64	6.2	86	12.85	83.68
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.33	85.20
	12/3/2013	Surveyed - Not Sampled				9.38	87.04
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.72	86.81
	3/4/2014	<1.0	<1.0	<1.0	<1.0	10.36	86.17
	6/5/2014	<1.0	3.0	<1.0	<1.0	9.30	87.12
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.12	88.30
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.17	87.25
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.32	87.10
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.09	88.33
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.79	88.63
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.06	88.36
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.49	87.93
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.96	88.46
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.01	87.41
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.23	86.19
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.29	87.13
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.03	87.39
	12/18/2017	8.48	222	57.4	205	9.74	86.68
	3/22/2018	<4.00	<4.00	<4.00	<4.00	10.96	89.11
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.51	89.56
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.76	90.31



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

<b>Well Name</b>	<b>Date</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>	<b>Depth Water/ (Product Thickness) (ft bgs)</b>	<b>Relative GW Elev. (ft)</b>
MW09	4/27/2010	5100	20000	790	7200	9.80	86.98
	6/15/2010	3200	57000	450	5600	8.55	88.15
	9/16/2010	2800	34000	900	11000	8.49	88.21
	12/7/2010	2000	37000	740	8900	9.56	87.14
	3/15/2011	1300	49000	620	8700	11.01	85.69
	6/27/2011	740	52000	760	9200	10.92	85.78
	9/14/2011	540	40000	860	11000	9.15	87.55
	12/16/2011	15	25000	560	6400	9.55	87.15
	3/7/2012	150	35000	610	8700	10.49	86.21
	6/25/2012	49	16000	370	4600	10.72	85.98
	9/24/2012	34	20000	400	4800	10.94	85.76
	12/28/2012	5.6	4200	200	3300	12.39	84.31
	3/28/2013	120	7200	<1.0	2900	13.49	83.21
	6/5/2013	Product - Not Sampled				13.69 (1.05)	83.01
	9/5/2013	170	17000	360	7700	11.32	85.30
	12/3/2013	Surveyed - Not Sampled				9.68	87.12
	12/17/2013	17.2	8020	221	4290	9.72	86.90
	3/4/2014	32.9	12400	493	6080	10.37	86.25
	6/5/2014	12.7	8020	330	4150	9.70	87.10
	9/24/2014	12.9	18100	1010	12000	8.37	88.43
	12/10/2014	7.7	15000	667	8000	9.40	87.40
	3/12/2015	<4.0	10100	629	7580	9.60	87.20
	6/18/2015	<4.0	5750	564	7490	8.39	88.41
	9/2/2015	<4.0	4690	543	6770	8.06	88.74
	12/10/2015	<4.0	2780	475	6290	8.27	88.53
	3/2/2016	<4.0	4790	994	13000	8.72	88.08
	9/19/2016	<4.00	347	610	10,300	8.22	88.58
	12/15/2016	<1.00	53.5	760	11,100	9.23	87.57
	3/20/2017	<4.00	54.9	846	10,900	10.39	86.41
	6/12/2017	<4.00	19.4	740	10,800	9.54	87.26
	9/29/2017	<4.00	<4.00	799	10,500	9.22	87.58
	12/18/2017	<4.00	15.6	643	8,410	10.00	86.80
	3/22/2018	<4.00	<4.00	616	7,910	11.30	89.21
	6/21/2018	<4.00	<4.00	492	6,890	10.84	89.67
	9/13/2018	<4.00	5.20	200	8,810	10.08	90.43



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
MW10	4/27/2010	11000	18000	1000	8700	10.03	86.93
	6/15/2010	27000	51000	360	4400	9.07	88.03
	9/16/2010	9600	35000	880	10000	8.95	88.15
	12/7/2010	10000	33000	700	9700	9.92	87.18
	3/15/2011	9300	48000	450	7000	11.42	85.68
	6/27/2011	12000	44000	710	11000	11.35	85.75
	9/14/2011	3200	18000	460	7200	9.65	87.45
	12/16/2011	3200	15000	1700	5400	10.00	87.10
	3/7/2012	2500	18000	370	5500	11.00	86.10
	6/25/2012	2700	17000	400	4900	11.11	85.99
	9/24/2012	2400	11000	270	3800	11.30	85.80
	12/28/2012	Product - Not Sampled				14.00 (0.35)	83.10
	3/28/2013	Product - Not Sampled				14.90 (1.55)	82.20
	6/5/2013	Product - Not Sampled				14.60 (1.70)	82.50
	9/5/2013	3100	17000	290	4800	12.42 (0.77)	84.70
	12/3/2013	Surveyed - Not Sampled				10.07	87.02
	12/17/2013	Product - Not Sampled				10.29 (0.08)	86.81
	3/4/2014	349	6510	462	4650	10.87	86.23
	6/5/2014	331	3440	214	2160	10.07	87.02
	9/24/2014	435	3250	198	1680	8.70	88.39
	12/10/2014	839	9760	523	6440	9.70	87.39
	3/12/2015	1780	23600	1470	24300	9.83	87.26
	6/18/2015	111	1320	312	3810	8.74	88.35
	9/2/2015	30.8	1890	74.6	821	8.40	88.69
	12/10/2015	63.4	2530	184	1220	8.58	88.51
	3/2/2016	312	8590	368	5410	8.08	89.01
	9/19/2016	60.6	2,360	115	1,750	8.54	88.55
	12/15/2016	77.4	7,290	140	2,620	9.54	87.55
	3/20/2017	57.8	9,070	435	5,710	10.70	86.39
	6/12/2017	24.0	7,200	467	3,380	9.93	87.16
	9/29/2017	14.0	2,470	171	2,030	9.57	87.52
	12/18/2017	69.6	7,620	422	5,220	10.30	86.79
	3/22/2018	13.3	5,150	472	5,740	11.55	89.22
	6/21/2018	28.4	6,930	260	3,820	11.19	89.58
	9/13/2018	7.84	2,810	134	2,540	10.36	90.41
MW11	5/25/2010	<1.0	1.2	<1.0	2.8	NM	NA



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	6/15/2010	<1.0	<1.0	<1.0	<1.0	7.54	88.67
	9/16/2010	<1.0	<1.0	<1.0	<1.0	7.75	88.46
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.84	87.37
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.31	85.90
	6/27/2011	<1.0	<1.0	<1.0	<1.0	10.16	86.05
	9/14/2011	<1.0	<1.0	<1.0	<1.0	8.41	87.80
	12/16/2011	<1.0	<1.0	<1.0	<1.0	8.82	87.39
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.80	86.41
	6/25/2012	<1.0	<1.0	<1.0	<1.0	9.94	86.27
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.25	85.96
	12/28/2012	1.0	6.1	<1.0	2.0	11.73	84.48
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	2.8	<1.0	2.3	11.00	85.61
	12/3/2013	Surveyed - Not Sampled				9.73	87.39
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.46	87.15
	3/4/2014	<4.0	<4.0	<4.0	<4.0	10.15	86.46
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.65	87.47
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.25	88.87
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.40	87.72
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.48	87.64
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.33	88.79
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.11	89.01
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.29	88.83
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.69	88.43
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.30	88.82
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.28	87.84
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.36	86.76
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.53	87.59
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.23	87.89
	12/18/2017	<1.00	<1.00	<1.00	<1.00	10.12	87.00
	3/22/2018	<1.00	1.05	<1.00	<1.00	11.26	89.52
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.71	90.07
	9/13/2018	<1.00	<1.00	<1.00	<1.00	10.00	90.78
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MW12	5/25/2010	<1.0	<b>2000</b>	250	<b>4100</b>	NM	NA
	6/15/2010	<1.0	810	120	1400	10.21	88.48
	9/16/2010	<1.0	140	130	1400	10.20	88.49



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	12/7/2010	<1.0	56	130	370	11.25	87.44
	3/15/2011	<1.0	340	290	650	12.68	86.01
	6/27/2011	<1.0	530	250	<b>3400</b>	12.60	86.09
	9/14/2011	<1.0	90	170	900	10.87	87.82
	12/16/2011	<1.0	4.4	23	90	10.23	88.46
	3/7/2012	<1.0	110	190	<b>1500</b>	12.20	86.49
	6/25/2012	<1.0	51	110	840	12.20	86.49
	9/24/2012	<1.0	46	130	1100	12.72	85.97
	12/28/2012	Insufficient Water - Not Sampled				13.60	85.09
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	3.6	10	<b>3300</b>	13.08	85.61
	12/3/2013	Surveyed - Not Sampled				10.68	87.39
	12/17/2013	<4.0	<4.0	<4.0	1030	11.51	87.18
	3/4/2014	<1.0	1.3	162	1390	12.18	86.51
	6/5/2014	<4.0	<4.0	62.8	723	10.95	87.12
	9/24/2014	<1.0	<1.0	13.1	60.2	9.39	88.68
	12/10/2014	<1.0	<1.0	4.8	8.0	10.28	87.79
	3/12/2015	<1.0	<1.0	6.1	42.0	10.39	87.68
	6/18/2015	<1.0	<1.0	1.6	<1.0	9.23	88.84
	9/2/2015	<1.0	<1.0	4.6	17.0	9.08	88.99
	12/10/2015	<1.0	<1.0	1.0	<1.0	9.18	88.89
	3/2/2016	<1.0	<1.0	<1.0	<1.0	9.64	88.43
	9/19/2016	<1.00	<1.00	<1.00	<1.00	9.23	88.84
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.17	87.90
	3/20/2017	<1.00	<1.00	<1.00	<1.00	11.28	86.79
	6/12/2017	<1.00	<1.00	<1.00	<1.00	10.47	87.60
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.14	87.93
	12/18/2017	<1.00	1.75	<1.00	2.12	10.99	87.08
	3/22/2018	<1.00	<1.00	<1.00	<1.00	12.12	89.58
	6/21/2018	<1.00	<1.00	<1.00	<1.00	11.66	90.04
	9/13/2018	<1.00	<1.00	<1.00	<1.00	10.91	90.79
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MW13	6/15/2010	<1.0	<1.0	<1.0	<1.0	6.66	89.22
	9/16/2010	<1.0	<1.0	<1.0	<1.0	6.92	88.96
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.10	87.78
	3/15/2011	<1.0	<1.0	<1.0	<1.0	9.54	86.34



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	6/27/2011	<1.0	<1.0	<1.0	<1.0	9.39	86.49
	9/14/2011	<1.0	<1.0	<1.0	<1.0	7.66	88.22
	12/16/2011	<1.0	<1.0	<1.0	<1.0	7.78	88.10
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.10	86.78
	6/25/2012	<1.0	<1.0	<1.0	<1.0	8.48	87.40
	9/24/2012	<1.0	<1.0	<1.0	<1.0	9.60	86.28
	12/28/2012	<1.0	<1.0	<1.0	<1.0	11.00	84.88
	3/28/2013	Insufficient Water - Not Sampled				12.02	83.86
	6/5/2013	Insufficient Water - Not Sampled				PVC Blocked	NA
	9/5/2013	<1.0	<1.0	<1.0	<1.0	8.80	87.08
	12/3/2013	Surveyed - Not Sampled				9.88	87.73
	12/17/2013	<4.0	<4.0	<4.0	<4.0	8.34	87.54
	3/4/2014	<4.0	<4.0	<4.0	<4.0	9.06	86.82
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.70	87.91
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.35	89.26
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.42	88.19
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.42	88.19
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.30	89.31
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.13	89.48
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.30	89.31
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.77	88.84
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.38	89.23
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.35	88.26
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.33	87.28
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.51	88.10
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.25	88.36
	12/18/2017	<1.00	1.13	<1.00	<1.00	10.29	87.32
	3/22/2018	<1.00	<1.00	<1.00	<1.00	11.19	89.86
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.62	90.43
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.90	91.15
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MW14	6/15/2010	<1.0	<1.0	<1.0	<1.0	10.59	88.70
	9/16/2010	<1.0	<1.0	<1.0	<1.0	10.52	88.77
	12/7/2010	<1.0	<1.0	<1.0	<1.0	11.61	87.68
	3/15/2011	<1.0	<1.0	<1.0	<1.0	13.07	86.22
	6/27/2011	<1.0	<1.0	<1.0	<1.0	12.94	86.35
	9/14/2011	<1.0	<1.0	<1.0	2.3	11.28	88.01



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	12/16/2011	<1.0	<1.0	<1.0	<1.0	11.30	87.99
	3/7/2012	<1.0	<1.0	<1.0	<1.0	12.70	86.59
	6/25/2012	<1.0	<1.0	<1.0	<1.0	12.61	86.68
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.18	86.11
	12/28/2012	<1.0	1.0	<1.0	<1.0	14.50	84.79
	3/28/2013	<1.0	<1.0	<1.0	<1.0	15.55	83.74
	6/5/2013	<1.0	<1.0	<1.0	<1.0	14.90	84.39
	9/5/2013	<1.0	<1.0	<1.0	<1.0	13.42	85.87
	12/3/2013	Surveyed - Not Sampled				11.34	87.57
	12/17/2013	<4.0	<4.0	<4.0	<4.0	11.89	87.40
	3/4/2014	<1.0	<1.0	<1.0	<1.0	12.59	86.70
	6/5/2014	<1.0	<1.0	<1.0	<1.0	11.30	87.61
	9/24/2014	<1.0	<1.0	<1.0	<1.0	9.83	89.08
	12/10/2014	<1.0	<1.0	<1.0	<1.0	10.82	88.09
	3/12/2015	<1.0	<1.0	<1.0	<1.0	10.90	88.01
	6/18/2015	<1.0	<1.0	<1.0	<1.0	9.83	89.08
	9/2/2015	<1.0	<1.0	<1.0	<1.0	9.62	89.29
	12/10/2015	<1.0	<1.0	<1.0	<1.0	9.75	89.16
	3/2/2016	<1.0	<1.0	<1.0	<1.0	10.20	88.71
	9/19/2016	<1.00	<1.00	<1.00	<1.00	9.86	89.05
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.73	88.18
	3/20/2017	<1.00	<1.00	<1.00	<1.00	11.77	87.14
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.04	87.87
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.72	88.19
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.57	87.34
	3/22/2018	<1.00	<1.00	<1.00	<1.00	12.67	89.73
	6/21/2018	<1.00	<1.00	<1.00	<1.00	12.15	90.25
	9/13/2018	<1.00	<1.00	<1.00	<1.00	11.38	91.02
<hr/>							
MW15	6/29/2010	4.6	50	130	1400	8.76	88.29
	9/16/2010	<1.0	1.3	16	230	8.78	88.27
	12/7/2010	<1.0	<1.0	16	210	9.86	87.19
	3/15/2011	<1.0	<1.0	17	280	11.18	85.87
	6/27/2011	<1.0	<1.0	8.9	39	11.15	85.90
	9/14/2011	<1.0	<1.0	5.9	3.1	9.37	87.68
	12/16/2011	<1.0	<1.0	6.0	2.6	9.83	87.22
	3/7/2012	<1.0	<1.0	<1.0	<1.0	10.83	86.22



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	6/25/2012	<1.0	<1.0	<1.0	<1.0	11.69	85.36
	9/24/2012	<1.0	<1.0	<1.0	<1.0	12.85	84.20
	12/28/2012	1.1	2.8	<1.0	<1.0	12.87	84.18
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.78	83.27
	6/5/2013	<1.0	<1.0	2.8	4.2	13.18	83.87
	9/5/2013	<1.0	2.1	2.2	7.5	11.63	85.42
	12/3/2013	Surveyed - Not Sampled				9.58	87.24
	12/17/2013	<4.0	<4.0	<4.0	<4.0	10.01	87.04
	3/4/2014	<1.0	<1.0	<1.0	<1.0	10.70	86.35
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.58	87.24
	9/24/2014	<1.0	<1.0	1.2	1.0	8.26	88.56
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.32	87.50
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.43	87.39
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.22	88.60
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.98	88.84
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.19	88.63
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.63	88.19
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.14	88.68
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.15	87.67
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.31	86.51
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.50	87.32
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.12	86.70
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.94	86.88
	3/22/2018	<1.00	<1.00	<1.00	<1.00	10.99	89.33
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.54	89.78
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.80	90.52
<hr/>							
MW16	6/29/2010	<b>48000</b>	<b>68000</b>	410	<b>4800</b>	9.61	NA
	9/16/2010	<b>13000</b>	<b>16000</b>	660	<b>6400</b>	9.33	NA
	12/7/2010	<b>9200</b>	<b>15000</b>	440	<b>6400</b>	10.32	NA
	3/15/2011	<b>20000</b>	<b>18000</b>	170	<b>8000</b>	11.77	NA
	6/27/2011	<b>26000</b>	<b>39000</b>	680	<b>17000</b>	11.78	NA
	9/14/2011	<b>7900</b>	<b>12000</b>	360	<b>6500</b>	9.97	NA
	12/16/2011	<b>6700</b>	<b>6500</b>	<b>1700</b>	<b>5100</b>	10.43	NA
	3/7/2012	<b>7500</b>	<b>7700</b>	150	<b>5000</b>	11.33	NA
	6/25/2012	<b>20000</b>	<b>21000</b>	240	<b>3300</b>	11.38	NA
	9/24/2012	<b>4300</b>	<b>6800</b>	170	<b>5500</b>	11.55	NA



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	12/28/2012	Product - Not Sampled				13.96 (1.43)	NA
	3/28/2013	Damaged - Not Sampled				Damaged	NA
	6/5/2013	Damaged - Not Sampled				Damaged	NA
	MW16 destroyed as of 9/5/2013						
MW16R	3/4/2014	16700	23100	<500	3660	11.73	NA
	6/5/2014	20100	26800	394	5430	13.82	NA
	9/24/2014	22000	30200	638	7290	9.68	NA
	12/10/2014	17300	24300	443	6560	10.65	NA
	3/12/2015	19900	31400	<500	6560	10.94	NA
	6/18/2015	20300	29800	464	6550	9.73	NA
	9/2/2015	25200	33600	454	5940	9.51	NA
	12/10/2015	19900	29100	<500	4940	9.58	NA
	3/2/2016	21700	33300	<500	5750	10.17	NA
	9/19/2016	7,400	11,200	424	2,800	9.49	NA
	12/15/2016	19,800	22,900	364	6,720	10.50	NA
	3/20/2017	14,800	14,200	416	5,880	11.78	NA
	6/12/2017	14,200	13,200	322	4,370	11.02	NA
	9/29/2017	18,400	9,800	472	6,770	10.64	NA
	12/18/2017	14,100	3,980	301	5,510	10.74	NA
	3/22/2018	7,150	446	143	2,500	11.97	88.87
	6/21/2018	113	577	123	1,570	11.69	89.15
	9/13/2018	13,900	9,770	21.5	7,190	10.81	90.03
MW17	9/16/2010	<1.0	<1.0	1.2	4.4	8.37	87.12
	12/7/2010	<1.0	1.8	<1.0	<1.0	9.37	86.12
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.86	84.63
	6/27/2011	1.3	7.4	<1.0	<1.0	10.84	84.65
	9/14/2011	<1.0	4.1	<1.0	2.8	8.87	86.62
	12/16/2011	<1.0	<1.0	<1.0	<1.0	9.31	86.18
	3/7/2012	<1.0	<1.0	<1.0	<1.0	10.39	85.10
	6/25/2012	1.1	1.9	<1.0	<1.0	10.74	84.75
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.49	85.00
	12/28/2012	<1.0	<1.0	<1.0	<1.0	12.26	83.23
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.29	82.20
	6/5/2013	<1.0	<1.0	<1.0	<1.0	12.81	82.68
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.29	84.20



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	12/3/2013	Surveyed - Not Sampled				9.40	86.12
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.57	85.92
	3/4/2014	<6.0	<1.0	<4.0	<4.0	10.15	85.34
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.70	85.82
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.29	87.23
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.34	86.18
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.78	85.74
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.43	87.09
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.90	87.62
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.26	87.26
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.75	86.77
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.98	87.54
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.10	86.42
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.47	85.05
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.63	85.89
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.25	86.27
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.78	85.74
	3/22/2018	<1.00	<1.00	<1.00	<1.00	10.88	88.38
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.86	88.40
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.80	89.46
MW18	9/16/2010	<b>75</b>	<1.0	10	37	9.25	87.12
	12/7/2010	<1.0	<1.0	<1.0	<1.0	10.34	86.03
	3/15/2011	2.4	<1.0	<1.0	<1.0	10.86	85.51
	6/27/2011	<b>23</b>	<1.0	<1.0	<1.0	11.85	84.52
	9/14/2011	3.8	<1.0	<1.0	3.1	9.83	86.54
	12/16/2011	<b>6.8</b>	<1.0	16	4.9	10.30	86.07
	3/7/2012	<1.0	<1.0	<1.0	<1.0	11.50	84.87
	6/25/2012	<1.0	<1.0	<1.0	<1.0	11.60	84.77
	9/24/2012	<1.0	<1.0	<1.0	<1.0	11.53	84.84
	12/28/2012	1.1	2.5	<1.0	<1.0	13.10	83.27
	3/28/2013	<1.0	<1.0	<1.0	<1.0	14.10	82.27
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	<1.0	<1.0	<1.0	12.16	84.21
	12/3/2013	Surveyed - Not Sampled				10.53	85.94
	12/17/2013	<4.0	<4.0	<4.0	<4.0	10.60	85.77
	3/4/2014	<b>8470</b>	<b>2130</b>	346	<b>1850</b>	11.15	85.22



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	6/5/2014	3650	141	200	933	10.82	85.65
	9/24/2014	3520	25.8	175	796	9.37	87.10
	12/10/2014	1220	<50.0	<50.0	<50.0	10.40	86.07
	3/12/2015	876	<50.0	<50.0	<50.0	10.90	85.57
	6/18/2015	3300	<20.0	96.2	281	9.60	86.87
	9/2/2015	8860	1230	72.2	380	8.91	87.56
	12/10/2015	303	<4.0	16.6	10.3	9.31	87.16
	3/2/2016	265	<4.0	5.2	8.6	9.80	86.67
	9/19/2016	187	<4.00	4.28	<4.00	8.98	87.49
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.07	86.40
	3/20/2017	488	1.14	42.6	16.8	11.62	84.85
	6/12/2017	13,500	680	227	1,770	10.79	85.68
	9/29/2017	65.9	<4.00	<4.00	<4.00	10.26	86.21
	12/18/2017	61.2	<1.00	<1.00	<1.00	10.79	85.68
	3/22/2018	620	<1.00	4.39	3.55	12.15	88.01
	6/21/2018	5,500	<100	<100	<100	11.76	88.40
	9/13/2018	<4.00	<4.00	<4.00	<4.00	10.82	89.34
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MW19	9/16/2010	2100	2900	390	3900	10.85	87.06
	12/7/2010	5000	5600	270	2500	11.78	86.13
	3/15/2011	7300	15000	380	4400	13.33	84.58
	6/27/2011	Product - Not Sampled				13.46 (0.60)	84.45
	9/14/2011	8600	25000	860	14000	11.35	86.56
	12/16/2011	2900	13000	560	7000	11.72	86.19
	3/7/2012	4200	30000	1700	44000	12.75	85.16
	6/25/2012	3800	9000	430	12000	12.55	85.36
	9/24/2012	1300	4200	170	8000	12.90	85.01
	12/28/2012	Product - Not Sampled				14.85 (0.70)	83.06
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	22000	32000	960	14000	13.42 (0.03)	84.49
	12/3/2013	Surveyed - Not Sampled				11.93	85.98
	12/17/2013	Product - Not Sampled				12.61 (0.01)	85.42
	3/4/2014	25500	49300	930	12000	12.75	85.28
	6/5/2014	20700	40700	875	11700	12.24	85.67
	9/24/2014	21300	38200	1010	10900	10.75	87.16
	12/10/2014	13300	23600	672	8720	11.71	86.20



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	3/12/2015	19600	40300	780	9660	12.21	85.70
	6/18/2015	17200	35800	672	8780	10.99	86.92
	9/2/2015	20300	44400	896	10800	10.35	87.56
	12/10/2015	13500	35100	670	7740	10.62	87.29
	3/2/2016	16900	41500	807	10300	11.17	86.74
	9/19/2016	1,680	4,150	82.5	1,100	10.36	87.55
	12/15/2016	12,700	34,700	537	10,800	11.40	86.51
	3/20/2017	17,100	36,600	906	11,600	12.88	85.03
	6/12/2017	14,000	33,800	658	8,430	12.07	85.84
	9/29/2017	12,200	27,200	612	8,860	11.57	86.34
	12/18/2017	14,600	33,000	712	9,890	12.12	85.79
	3/22/2018	7,530	15,100	370	6,360	13.30	88.11
	6/21/2018	12,300	25,300	<500	10,400	13.01	88.40
	9/13/2018	9,210	15,900	<500	5,700	12.07	89.34
MW20	9/16/2010	16000	13000	200	4800	11.32	87.47
	12/7/2010	35000	32000	400	5200	11.25	87.54
	3/15/2011	46000	42000	250	4500	12.75	86.04
	6/27/2011	29000	32000	280	4300	12.88	85.91
	9/14/2011	21000	22000	320	5500	11.30	87.49
	12/16/2011	28000	27000	350	4600	11.29	87.50
	3/7/2012	21000	26000	580	16000	12.42	86.37
	6/25/2012	22000	22000	280	3800	12.48	86.31
	9/24/2012	24000	22000	220	3400	13.57	85.22
	12/28/2012	22000	19000	250	3400	14.22	84.57
	3/28/2013	Insufficient Water - Not Sampled				PVC Blocked	NA
	6/5/2013	Insufficient Water - Not Sampled				PVC Blocked	NA
	9/5/2013	2000	2700	13	210	PVC Blocked	NA
	12/3/2013	Surveyed - Not Sampled				11.55	86.62
	MW20 destroyed as of 12/17/2013						
MW20R	3/4/2014	25900	31700	445	5340	12.20	NA
	6/5/2014	22000	26000	<500	5020	14.58	NA
	9/24/2014	24500	32900	930	8340	10.07	NA
	12/10/2014	17500	33000	406	6620	11.05	NA
	3/12/2015	24600	31300	<500	7150	11.40	NA
	6/18/2015	17700	20800	142	4160	10.40	NA



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS COUNTY, COLORADO**  
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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)
	9/2/2015	18700	24000	344	4730	9.96	NA
	12/10/2015	14800	21300	<500	4360	9.97	NA
	3/2/2016	19300	26200	328	5560	10.52	NA
	9/19/2016	9,730	13,500	249	3,670	9.93	NA
	12/15/2016	19,600	22,000	271	7,350	10.83	NA
	3/20/2017	30,600	22,200	536	7,700	12.14	NA
	6/12/2017	24,000	17,500	334	4,610	11.51	NA
	9/29/2017	21,500	17,100	434	6,780	11.04	NA
	12/18/2017	22,200	12,400	412	6,300	11.59	NA
	3/22/2018	11,800	2,430	<200	2,030	10.96	90.79
	6/21/2018	21,000	5,020	<500	2,080	12.71	89.04
	9/13/2018	25,200	4,440	<500	3,080	11.78	89.97
MW21	9/16/2010	<1.0	<1.0	<1.0	<1.0	10.75	88.07
	12/7/2010	<1.0	<1.0	<1.0	<1.0	11.52	87.30
	3/15/2011	<1.0	<1.0	<1.0	<1.0	12.98	85.84
	6/27/2011	<1.0	<1.0	<1.0	<1.0	13.00	85.82
	9/14/2011	<1.0	2.8	<1.0	<1.0	11.41	87.41
	12/16/2011	2.6	4.7	<1.0	<1.0	11.51	87.31
	3/7/2012	1.3	4.0	<1.0	14	12.60	86.22
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	12.90	85.92
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				11.86	86.99
	12/17/2013	<4.0	<4.0	<4.0	<4.0	11.95	86.87
	3/4/2014	Insufficient Water - Not Sampled				12.57	86.25
	6/5/2014	<1.0	<1.0	<1.0	<1.0	12.08	86.77
	9/24/2014	<1.0	<1.0	<1.0	<1.0	10.45	88.40
	12/10/2014	<1.0	<1.0	<1.0	<1.0	11.30	87.55
	3/12/2015	<1.0	<1.0	<1.0	<1.0	11.58	87.27
	6/18/2015	<1.0	<1.0	<1.0	<1.0	10.46	88.39
	9/2/2015	<1.0	<1.0	<1.0	<1.0	10.23	88.62
	12/10/2015	<1.0	<1.0	<1.0	<1.0	10.26	88.59
	3/2/2016	<1.0	<1.0	<1.0	<1.0	10.84	88.01



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	6/8/2016	<1.00	<1.00	<1.00	<1.00	---	---
	9/19/2016	<1.00	<1.00	<1.00	<1.00	10.32	88.53
	12/15/2016	<1.00	<1.00	<1.00	<1.00	11.17	87.68
	3/20/2017	<1.00	<1.00	<1.00	<1.00	12.38	86.47
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.82	87.03
	9/29/2017	<1.00	<1.00	<1.00	<1.00	11.34	87.51
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.90	86.95
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Insufficient Water - Not Sampled				12.75	89.70
MW22	9/16/2010	<b>110</b>	<1.0	<1.0	<1.0	11.40	87.27
	12/7/2010	<b>20</b>	1.4	<1.0	<1.0	12.33	86.34
	3/15/2011	3.2	<1.0	<1.0	<1.0	13.88	84.79
	6/27/2011	2.6	19	1.1	11	13.95	84.72
	9/14/2011	<b>150</b>	2.9	<1.0	1.5	12.06	86.61
	12/16/2011	<b>130</b>	2.3	<1.0	2.7	12.12	86.55
	3/7/2012	<1.0	2.0	<1.0	7.7	13.40	85.27
	6/25/2012	1.4	2.2	<1.0	<1.0	12.76	85.91
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.48	85.19
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	1.4	<1.0	1.0	14.31	84.36
	12/3/2013	Surveyed - Not Sampled				12.82	86.03
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.73	85.94
	3/4/2014	<b>5.6</b>	<1.0	<1.0	<1.0	13.26	85.41
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.10	85.75
	9/24/2014	<b>760</b>	<1.0	<1.0	1.8	12.55	86.30
	12/10/2014	2.0	<1.0	<1.0	<1.0	12.44	86.41
	3/12/2015	<b>20.1</b>	<10.0	<10.0	<10.0	12.93	85.92
	6/18/2015	<b>3340</b>	470	84.2	419	11.78	87.07
	9/2/2015	<b>2180</b>	<1.0	2.3	4.8	11.14	87.71
	12/10/2015	<b>104</b>	<1.0	<1.0	<1.0	11.39	87.46
	3/2/2016	4.0	<1.0	<1.0	<1.0	11.95	86.90
	9/19/2016	1.24	<1.00	<1.00	<1.00	11.21	87.64
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.15	86.70



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	3/20/2017	<1.00	<1.00	<1.00	<1.00	13.59	85.26
	6/12/2017	<b>65.6</b>	<1.00	<1.00	<1.00	12.95	85.90
	9/29/2017	<b>17.0</b>	<1.00	<1.00	3.32	12.43	86.42
	12/18/2017	3.12	<1.00	<1.00	<1.00	13.87	84.98
	3/22/2018	3.52	<1.00	<1.00	<1.00	13.88	88.29
	6/21/2018	<b>10.5</b>	<1.00	<1.00	<1.00	13.70	88.47
	9/13/2018	<1.00	<1.00	<1.00	1.85	12.72	89.45
<hr/>							
MW23	10/15/2010	<1.0	<1.0	<1.0	<1.0	8.80	86.61
	12/7/2010	<1.0	<1.0	<1.0	<1.0	9.62	85.79
	3/15/2011	<1.0	<1.0	<1.0	<1.0	11.15	84.26
	6/27/2011	<1.0	<1.0	<1.0	<1.0	11.10	84.31
	9/14/2011	<1.0	1.9	<1.0	<1.0	9.00	86.41
	12/16/2011	<1.0	<1.0	<1.0	<1.0	9.60	85.81
	3/7/2012	<1.0	<1.0	<1.0	<1.0	10.75	84.66
	6/25/2012	<b>9.7</b>	<1.0	<1.0	<1.0	10.85	84.56
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.70	84.71
	12/28/2012	4.5	28	1.0	12	12.45	82.96
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.55	81.86
	6/5/2013	<1.0	<1.0	<1.0	<1.0	13.04	82.37
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.36	84.05
	12/3/2013	Surveyed - Not Sampled				9.82	85.72
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.81	85.60
	3/4/2014	<1.0	2.4	<1.0	<1.0	10.42	84.99
	6/5/2014	<1.0	<1.0	<1.0	<1.0	10.13	85.41
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.72	86.82
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.79	85.75
	3/12/2015	1.7	<1.0	<1.0	<1.0	10.34	85.20
	6/18/2015	<1.0	<1.0	<1.0	<1.0	9.15	86.39
	9/2/2015	<b>22.4</b>	<1.0	<1.0	<1.0	8.09	87.45
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.74	86.80
	3/2/2016	<1.0	<1.0	<1.0	<1.0	9.15	86.39
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.17	87.37
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.51	86.03
	3/20/2017	2.92	<1.00	<1.00	<1.00	11.04	84.50
	6/12/2017	<b>198</b>	<1.00	<1.00	<1.00	9.95	85.59
	9/29/2017	<4.00	<4.00	<4.00	<4.00	9.63	85.91



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	12/18/2017	<1.00	<1.00	<1.00	<1.00	10.13	85.41
	3/22/2018	<1.00	<1.00	<1.00	<1.00	11.46	87.63
	6/21/2018	<b>6.76</b>	<1.00	<1.00	<1.00	10.99	88.10
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.91	89.18
MW24	10/15/2010	<b>2000</b>	<1.0	<1.0	5.6	11.28	86.74
	12/7/2010	<b>3200</b>	<1.0	<1.0	2.8	12.11	85.91
	3/15/2011	Insufficient Water - Not Sampled				13.61	84.41
	6/27/2011	<b>48</b>	230	19	240	13.68	84.34
	9/14/2011	<b>5500</b>	1.7	<1.0	1.5	11.57	86.45
	12/16/2011	<b>1600</b>	<1.0	<1.0	<1.0	12.09	85.93
	3/7/2012	<1.0	<1.0	<1.0	<1.0	13.17	84.85
	6/25/2012	<1.0	<1.0	<1.0	<1.0	13.09	84.93
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.27	84.75
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<b>230</b>	37	<1.0	5.3	13.98	84.04
	12/3/2013	Surveyed - Not Sampled				12.54	85.67
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.47	85.55
	3/4/2014	<1.0	1.6	<1.0	<1.0	13.00	85.02
	6/5/2014	<b>1370</b>	862	<100	132	12.88	85.33
	9/24/2014	3.0	<1.0	2.8	2.5	11.34	86.87
	12/10/2014	<b>3920</b>	5.4	13.7	26.2	12.32	85.89
	3/12/2015	1.8	2.0	6.9	18.4	12.89	85.32
	6/18/2015	<b>10200</b>	<b>7470</b>	334	<b>2940</b>	11.60	86.61
	9/2/2015	<b>10800</b>	156	410	350	10.81	87.40
	12/10/2015	<b>2130</b>	760	154	<100	11.23	86.98
	3/2/2016	<b>5880</b>	373	286	420	11.78	86.43
	9/19/2016	<b>14,400</b>	<b>13,600</b>	690	<b>5,730</b>	10.85	87.36
	12/15/2016	<b>4,690</b>	437	267	<b>1,890</b>	11.95	86.26
	3/20/2017	<b>71.8</b>	<20.0	122	163	13.51	84.70
	6/12/2017	<b>2,730</b>	654	88.2	737	12.66	85.55
	9/29/2017	<b>11,000</b>	<b>5,520</b>	525	<b>3,980</b>	12.15	86.06
	12/18/2017	<b>3,610</b>	<b>1,580</b>	229	1,390	12.68	85.53
	3/22/2018	<b>1,660</b>	122	153	1,280	14.03	87.84
	6/21/2018	<b>1,990</b>	350	108	746	13.73	88.14



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	9/13/2018	18,800	13,300	24.0	8,370	12.69	89.18
MW25	10/15/2010	<1.0	<1.0	<1.0	<1.0	11.69	86.90
	12/7/2010	<1.0	<1.0	<1.0	<1.0	12.52	86.07
	3/15/2011	<1.0	<1.0	<1.0	<1.0	13.98	84.61
	6/27/2011	<1.0	<1.0	<1.0	<1.0	14.14	84.45
	9/14/2011	<1.0	<1.0	<1.0	<1.0	12.19	86.40
	12/16/2011	<1.0	<1.0	<1.0	<1.0	10.57	88.02
	3/7/2012	<1.0	<1.0	<1.0	<1.0	13.58	85.01
	6/25/2012	<1.0	<1.0	<1.0	<1.0	13.48	85.11
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.48	85.11
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				12.99	85.76
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.91	85.68
	3/4/2014	<1.0	<1.0	<1.0	<1.0	13.44	85.15
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.32	85.43
	9/24/2014	<1.0	<1.0	<1.0	<1.0	11.75	87.00
	12/10/2014	<1.0	<1.0	<1.0	<1.0	12.65	86.10
	3/12/2015	<1.0	<1.0	<1.0	<1.0	13.20	85.55
	6/18/2015	<1.0	<1.0	<1.0	<1.0	12.16	86.59
	9/2/2015	<1.0	<1.0	<1.0	<1.0	11.30	87.45
	12/10/2015	<1.0	<1.0	<1.0	<1.0	11.60	87.15
	3/2/2016	<4.0	<4.0	<4.0	<4.0	12.17	86.58
	9/19/2016	<1.00	<1.00	<1.00	<1.00	11.33	87.42
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.28	86.47
	3/20/2017	<4.00	<4.00	<4.00	<4.00	13.84	84.91
	6/12/2017	<1.00	<1.00	<1.00	<1.00	13.13	85.62
	9/29/2017	<1.00	<1.00	<1.00	<1.00	12.57	86.18
	12/18/2017	<1.00	<1.00	<1.00	<1.00	13.04	85.71
	3/22/2018	<1.00	<1.00	<1.00	<1.00	14.34	88.00
	6/21/2018	<1.00	1.16	<1.00	<1.00	14.09	88.25
	9/13/2018	Insufficient Water - Not Sampled				13.08	89.26
MW26	10/15/2010	<1.0	<1.0	<1.0	<1.0	12.27	87.14
	12/7/2010	<1.0	<1.0	<1.0	<1.0	12.89	86.52



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	3/15/2011	Insufficient Water - Not Sampled				14.21	85.20
	6/27/2011	Insufficient Water - Not Sampled				14.35	85.06
	9/14/2011	<1.0	<1.0	<1.0	<1.0	12.88	86.53
	12/16/2011	<1.0	<1.0	<1.0	<1.0	10.92	88.49
	3/7/2012	Insufficient Water - Not Sampled				14.02	85.39
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	14.07	85.34
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				13.57	85.97
	12/17/2013	<4.0	<4.0	<4.0	<4.0	13.47	85.94
	3/4/2014	<1.0	<1.0	<1.0	<1.0	13.98	85.43
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.94	85.60
	9/24/2014	<1.0	<1.0	<1.0	<1.0	12.17	87.37
	12/10/2014	<1.0	1.0	<1.0	<1.0	13.03	86.51
	3/12/2015	<1.0	<1.0	<1.0	<1.0	13.52	86.02
	6/18/2015	<1.0	<1.0	<1.0	<1.0	12.52	87.02
	9/2/2015	<1.0	<1.0	<1.0	<1.0	11.85	87.69
	12/10/2015	<1.0	<1.0	<1.0	<1.0	11.99	87.55
	3/2/2016	<1.0	<1.0	<1.0	<1.0	12.63	86.91
	9/19/2016	<1.00	<1.00	<1.00	<1.00	11.86	87.68
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.77	86.77
	3/20/2017	<4.00	<4.00	<4.00	<4.00	14.12	85.42
	6/12/2017	<1.00	<1.00	<1.00	<1.00	13.69	85.85
	9/29/2017	<1.00	<1.00	<1.00	<1.00	13.03	86.51
	12/18/2017	<1.00	<1.00	<1.00	<1.00	13.47	86.07
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Insufficient Water - Not Sampled				13.65	89.47
MW27	12/7/2010	<1.0	1.6	<1.0	<1.0	12.88	85.70
	3/15/2011	Insufficient Water - Not Sampled				13.83	84.16
	6/27/2011	Insufficient Water - Not Sampled				13.86	84.13
	9/14/2011	<1.0	<1.0	<1.0	<1.0	11.87	86.12
	12/16/2011	<1.0	<1.0	<1.0	<1.0	11.09	86.90



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	3/7/2012	<1.0	<1.0	<1.0	<1.0	13.41	84.58
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	14.01	83.98
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				12.78	85.33
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.73	85.26
	3/4/2014	<1.0	<1.0	<1.0	<1.0	13.30	84.69
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.12	84.99
	9/24/2014	<1.0	<1.0	<1.0	<1.0	11.58	86.53
	12/10/2014	<1.0	<1.0	<1.0	<1.0	12.54	85.57
	3/12/2015	<1.0	<1.0	<1.0	<1.0	13.18	84.93
	6/18/2015	<1.0	<1.0	<1.0	<1.0	11.96	86.15
	9/2/2015	<1.0	<1.0	<1.0	<1.0	10.93	87.18
	12/10/2015	<1.0	<1.0	<1.0	<1.0	11.72	86.39
	3/2/2016	<1.0	<1.0	<1.0	<1.0	12.04	86.07
	9/19/2016	<1.00	<1.00	<1.00	<1.00	11.02	87.09
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.24	85.87
	3/20/2017	<4.00	<4.00	<4.00	<4.00	13.71	84.40
	6/12/2017	<1.00	<1.00	<1.00	<1.00	12.84	85.27
	9/29/2017	<1.00	<1.00	<1.00	<1.00	12.31	85.80
	12/18/2017	<1.00	<1.00	<1.00	<1.00	12.86	85.25
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Dry - Not Sampled				Dry	NA
MW28	12/7/2010	<1.0	<1.0	<1.0	<1.0	11.75	85.69
	3/15/2011	<1.0	<1.0	<1.0	<1.0	12.10	84.20
	6/27/2011	<1.0	<1.0	<1.0	<1.0	12.14	84.16
	9/14/2011	<1.0	<1.0	<1.0	<1.0	9.98	86.32
	12/16/2011	1.2	<1.0	<1.0	<1.0	10.66	85.64
	3/7/2012	Insufficient Water - Not Sampled				11.76	84.54
	6/25/2012	1.1	<1.0	<1.0	<1.0	11.72	84.58
	9/24/2012	<1.0	<1.0	<1.0	<1.0	11.70	84.24

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				10.91	85.52
	12/17/2013	<4.0	<4.0	<4.0	<4.0	10.58	85.36
	3/4/2014	<1.0	<1.0	<1.0	<1.0	11.11	84.83
	6/5/2014	<1.0	<1.0	<1.0	<1.0	11.29	85.14
	9/24/2014	<1.0	<1.0	<1.0	<1.0	9.78	86.65
	12/10/2014	<1.0	<1.0	<1.0	<1.0	10.83	85.60
	3/12/2015	<1.0	<1.0	<1.0	<1.0	11.41	85.02
	6/18/2015	<1.0	<1.0	<1.0	<1.0	10.10	86.33
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.17	88.26
	12/10/2015	<1.0	<1.0	<1.0	<1.0	9.77	86.66
	3/2/2016	<1.0	<1.0	<1.0	<1.0	10.26	86.17
	9/19/2016	<1.00	<1.00	<1.00	<1.00	9.21	87.22
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.52	85.91
	3/20/2017	<1.00	<1.00	<1.00	<1.00	12.00	84.43
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.10	85.33
	9/29/2017	<1.00	<1.00	<1.00	<1.00	11.34	85.09
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.19	85.24
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Insufficient Water - Not Sampled				12.08	87.99
	9/13/2018	<4.00	<4.00	<4.00	<4.00	11.09	88.98
MW29	12/18/2017	<b>2,980</b>	<b>31,600</b>	<b>1,160</b>	<b>13,600</b>	12.06	NA
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Dry - Not Sampled				Dry	NA
MW30	12/18/2017	Insufficient Water - Not Sampled				NM	NA
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.92	88.98
MW31	3/22/2018	Not Sampled				13.41	88.84

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HSR-DREYER 5-5**  
**ADAMS 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)
	6/21/2018	<1.00	<1.00	3.54	<1.00	13.14	89.11
	9/13/2018	Not Found - Not Sampled				NM	NA
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>1400</b>		

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





September 20, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - HSR-Dreyer 5-5**

**Project Number - KMG09552/WO #88045**

Attached are your analytical results for KMG - HSR-Dreyer 5-5 received by Origins Laboratory, Inc. September 13, 2018. This project is associated with Origins project number Y809177-01.

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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y809177-01	Water	September 13, 2018 12:10	09/13/2018 17:30
MW03	Y809177-02	Water	September 13, 2018 12:02	09/13/2018 17:30
MW06	Y809177-03	Water	September 13, 2018 12:05	09/13/2018 17:30
MW07R	Y809177-04	Water	September 13, 2018 12:10	09/13/2018 17:30
MW08	Y809177-05	Water	September 13, 2018 12:15	09/13/2018 17:30
MW09	Y809177-06	Water	September 13, 2018 12:20	09/13/2018 17:30
MW10	Y809177-07	Water	September 13, 2018 12:25	09/13/2018 17:30
MW11	Y809177-08	Water	September 13, 2018 12:30	09/13/2018 17:30
MW12	Y809177-09	Water	September 13, 2018 12:35	09/13/2018 17:30
MW13	Y809177-10	Water	September 13, 2018 12:40	09/13/2018 17:30
MW14	Y809177-11	Water	September 13, 2018 12:45	09/13/2018 17:30
MW15	Y809177-12	Water	September 13, 2018 12:50	09/13/2018 17:30
MW16R	Y809177-13	Water	September 13, 2018 12:55	09/13/2018 17:30
MW17	Y809177-14	Water	September 13, 2018 12:57	09/13/2018 17:30

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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW18	Y809177-15	Water	September 13, 2018 13:00	09/13/2018 17:30
MW19	Y809177-16	Water	September 13, 2018 13:02	09/13/2018 17:30
MW20R	Y809177-17	Water	September 13, 2018 13:05	09/13/2018 17:30
MW22	Y809177-18	Water	September 13, 2018 12:10	09/13/2018 17:30
MW23	Y809177-19	Water	September 13, 2018 13:15	09/13/2018 17:30
MW24	Y809177-20	Water	September 13, 2018 13:17	09/13/2018 17:30
MW28	Y809177-21	Water	September 13, 2018 13:25	09/13/2018 17:30
MW30	Y809177-22	Water	September 13, 2018 13:30	09/13/2018 17:30

Origins Laboratory, Inc.



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


Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5


ORIGINS  
LABORATORY, INC

4909177

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger					
Project: KMG - HSR-Dreyer 5-5		Project Number: KMG09552/WO #88045598					
Number	Sample Identification	Matrix	Sample Date Time	Sample Time Date	Container	Qty	Analyses
01-001	MW01	Water	12:10 9/13/18	GT	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MW02	Water	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MW03	Water	1202	GT	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MW04	Water	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MW05	Water	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MW06	Water	1205	GT	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
07-001	MW07R	Water	1210		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
08-001	MW08	Water	1215		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
09-001	MW09	Water	1220		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
10-001	MW10	Water	1225		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
11-001	MW11	Water	1230		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By:  Date / Time: 9/13/18 1730

Received By:  Date / Time: 9/13/18 1718

Temperature on Receipt: 5.0

Turn Around Time: ☐ 72-hr ☒ Standard ☐ 24-hr ☐ 48-hr

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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

ORIGINS  
LABORATORY, INC

4209177

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322

Time date Sampled by

12-001	MM12	Water	1235	9/13/16	6T	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
13-001	MM13	Water	1240			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
14-001	MM14	Water	1245			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
15-001	MM15	Water	1250			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
16-001	MM16R	Water	1255			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
17-001	MM17	Water	1257			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
18-001	MM18	Water	1300			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
19-001	MM19	Water	1302			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
20-001	MM20R	Water	13:05			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
21-001	MM21	Water	NS			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
22-001	MM22	Water	12:10 MB-10			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
23-001	MM23	Water	1315			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
24-001	MM24	Water	1317			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
25-001	MM25	Water	NS			12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 5.0

Turn Around Time:

Same Day: ☐ 72-hr: ☒ Standard: ☐ 24-hr: ☐ 48-hr: ☐

Relinquished By: Date / Time: 9/13/16 1730

Received By: Date / Time: 9/13/16 1718

Date / Time

Date / Time

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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

ORIGINS  
LABORATORY, INC

4809177

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322


Time Date By


26-001	WW26	Water	NS	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
27-001	WW27	Water	NS	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
28-001	WW28	Water	1325	9/13/18	GT	12_40mL Amber VOA Vial - HCL	1	BTEX by EPA 8260C
29-001	WW29	Water	NS	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
30-001	WW30	Water	1330	9/13/18	GT	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
31-001	WW31	Water	NS	NS	NS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

5.6

Temperature on Receipt: ☐ 72-hr ☒ Standard ☐ 48-hr

Turn Around Time: ☐ 24-hr ☐ 48-hr

Relinquished By:  Date / Time: 9/13/18 1730

Received By:  Date / Time: 9/13/18 1718

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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 4809177

Client: LTE

Client Project ID: KMG - HSR-Dreyer

Checklist Completed by: JP

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

Date/time completed: 9/14/18

Airbill #: NA

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

Cooler Number/Temperature: 150 °C / 1 °C / 1 °C / 1 °C (Describe)

Thermometer ID: TO05

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCL</u>
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 9/17/18

Origins Laboratory, Inc.

*Jen 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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

MW01

9/13/2018 12:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.  
Y809177-01 (Water)

BTEX by EPA 8260C

Benzene	1170	200	ug/L	200	B8I1406	KDK	09/14/2018	09/17/2018
Toluene	25500	200	"	"	"	KDK	"	"
Ethylbenzene	704	200	"	"	"	KDK	"	"
Xylenes, total	9270	200	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	97.5 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

MW03

9/13/2018 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.  
Y809177-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

## MW06

9/13/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

## Origins Laboratory, Inc. Y809177-03 (Water)

### BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	439	4.00	"	"	"	KDK	"	"	
Xylenes, total	4710	100	"	100	"	KDK	"	09/18/2018	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	84-121			"	"	09/17/2018
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"

Origins Laboratory, Inc.



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

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

Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

## MW07R

9/13/2018 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

## Origins Laboratory, Inc. Y809177-04 (Water)

### BTEX by EPA 8260C

Benzene	224	200	ug/L	200	B8I1406	KDK	09/14/2018	09/17/2018	
Toluene	1290	200	"	"	"	KDK	"	"	
Ethylbenzene	ND	200	"	"	"	KDK	"	"	U
Xylenes, total	1980	200	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"	"	

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

Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

## MW08

9/13/2018 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
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Project: KMG - HSR-Dreyer 5-5

## MW09

9/13/2018 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-06 (Water)

### BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B811406	KDK	09/14/2018	09/18/2018	U
Toluene	5.20	4.00	"	"	"	KDK	"	"	
Ethylbenzene	200	4.00	"	"	"	KDK	"	"	
Xylenes, total	8810	20.0	"	20	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121	"	"	"
Surrogate: Toluene-d8	99.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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## MW10

9/13/2018 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-07 (Water)

### BTEX by EPA 8260C

Benzene	7.84	4.00	ug/L	4	B8I1406	KDK	09/14/2018	09/18/2018
Toluene	2810	100	"	100	"	KDK	"	"
Ethylbenzene	134	4.00	"	4	"	KDK	"	"
Xylenes, total	2540	100	"	100	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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## MW11

9/13/2018 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-08 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121	"	"	"
Surrogate: Toluene-d8	98.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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## MW12

9/13/2018 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-09 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114	"	"	"

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## MW13

9/13/2018 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-10 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

## MW14

9/13/2018 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-11 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	99.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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Project: KMG - HSR-Dreyer 5-5

## MW15

9/13/2018 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-12 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121	"	"	"
Surrogate: Toluene-d8	99.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114	"	"	"

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## MW16R

9/13/2018 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-13 (Water)

### BTEX by EPA 8260C

Benzene	13900	500	ug/L	500	B8I1406	KDK	09/14/2018	09/18/2018
Toluene	9770	100	"	100	"	KDK	"	"
Ethylbenzene	21.5	10.0	"	10	"	KDK	"	09/17/2018
Xylenes, total	7190	100	"	100	"	KDK	"	09/18/2018

Surrogate: 1,2-Dichloroethane-d4	96.8 %	84-121			"	"		09/17/2018
Surrogate: Toluene-d8	100 %	85-115			"	"		"
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"		"

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## MW17

9/13/2018 12:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-14 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121	"	"	"
Surrogate: Toluene-d8	98.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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## MW18

9/13/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-15 (Water)

### BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B81406	KDK	09/14/2018	09/18/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	09/17/2018
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114			"	"	"

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

## MW19

9/13/2018 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-16 (Water)

### BTEX by EPA 8260C

Benzene	9210	500	ug/L	500	B8I1406	KDK	09/14/2018	09/17/2018	
Toluene	15900	500	"	"	"	KDK	"	"	
Ethylbenzene	ND	500	"	"	"	KDK	"	"	U
Xylenes, total	5700	500	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

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## MW20R

9/13/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-17 (Water)

### BTEX by EPA 8260C

Benzene	25200	500	ug/L	500	B8I1406	KDK	09/14/2018	09/17/2018	
Toluene	4440	500	"	"	"	KDK	"	"	
Ethylbenzene	ND	500	"	"	"	KDK	"	"	U
Xylenes, total	3080	500	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	"
Surrogate: Toluene-d8	98.7 %	85-115			"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"	"

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Project: KMG - HSR-Dreyer 5-5

## MW22

9/13/2018 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-18 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	1.85	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"
Surrogate: Toluene-d8	100 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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Project: KMG - HSR-Dreyer 5-5

MW23

9/13/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809177-19 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	98.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

## MW24

9/13/2018 1:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y809177-20 (Water)

### BTEX by EPA 8260C

Benzene	18800	100	ug/L	100	B8I1406	KDK	09/14/2018	09/18/2018
Toluene	13300	200	"	200	"	KDK	"	"
Ethylbenzene	24.0	20.0	"	20	"	KDK	"	09/17/2018
Xylenes, total	8370	100	"	100	"	KDK	"	09/18/2018

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114	"	"	"

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Arvada CO 80003

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Project: KMG - HSR-Dreyer 5-5

MW28

9/13/2018 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y809177-21 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	99.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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Project: KMG - HSR-Dreyer 5-5

MW30

9/13/2018 1:30:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.  
Y809177-22 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B81406	KDK	09/14/2018	09/17/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	84-121	"	"	"
Surrogate: Toluene-d8	98.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

**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
<b>Batch B8I1406 - EPA 5030B (Water)</b>										
<b>Blank (B8I1406-BLK1)</b>					Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	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

Brian Sulzberger  
Project Number: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

**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
<b>Batch B8I1406 - EPA 5030B (Water)</b>										
<b>Blank (B8I1406-BLK2)</b>					Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	100		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.9		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: KMG09552/WO #88045598  
Project: KMG - HSR-Dreyer 5-5

**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 B8I1406 - EPA 5030B (Water)**

**LCS (B8I1406-BS1)**

Prepared: 09/14/2018 Analyzed: 09/17/2018

Benzene	59.9	1.00	ug/L	50.0	120	73.3-129
Toluene	59.0	1.00	"	50.0	118	76.2-123
Ethylbenzene	59.9	1.00	"	50.0	120	73.6-130
m,p-Xylene	118	2.00	"	100	118	76.1-126
o-Xylene	57.2	1.00	"	50.0	114	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.6	84-121
Surrogate: Toluene-d8	63		"	62.5	101	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.8	84-114

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B8I1406 - EPA 5030B (Water)</b>										
<b>LCS (B8I1406-BS2)</b>					Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	57.0	1.00	ug/L	50.0		114	73.3-129			
Toluene	55.3	1.00	"	50.0		111	76.2-123			
Ethylbenzene	54.6	1.00	"	50.0		109	73.6-130			
m,p-Xylene	108	2.00	"	100		108	76.1-126			
o-Xylene	54.6	1.00	"	50.0		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	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 B8I1406 - EPA 5030B (Water)**

Matrix Spike (B8I1406-MS1)		Source: Y809177-02			Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	59.3	1.00	ug/L	50.0	0.190	118	74-130			
Toluene	56.6	1.00	"	50.0	ND	113	73-131			
Ethylbenzene	57.5	1.00	"	50.0	0.110	115	76-132			
m,p-Xylene	112	2.00	"	100	ND	112	69-139			
o-Xylene	55.2	1.00	"	50.0	ND	110	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	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 B8I1406 - EPA 5030B (Water)**

Matrix Spike (B8I1406-MS2)		Source: Y809177-05			Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	65.6	1.00	ug/L	50.0	ND	131	74-130			QM-07
Toluene	65.1	1.00	"	50.0	ND	130	73-131			
Ethylbenzene	64.6	1.00	"	50.0	ND	129	76-132			
m,p-Xylene	127	2.00	"	100	ND	127	69-139			
o-Xylene	64.4	1.00	"	50.0	ND	129	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	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
<b>Batch B8I1406 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B8I1406-MSD1)</b>		<b>Source: Y809177-02</b>			Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	69.2	1.00	ug/L	50.0	0.190	138	74-130	15.5	20	QM-07
Toluene	68.6	1.00	"	50.0	ND	137	73-131	19.3	20	QM-07
Ethylbenzene	69.5	1.00	"	50.0	0.110	139	76-132	18.9	20	QM-07
m,p-Xylene	136	2.00	"	100	ND	136	69-139	19.8	20	
o-Xylene	67.0	1.00	"	50.0	ND	134	74-131	19.4	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	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 B8I1406 - EPA 5030B (Water)**

Matrix Spike Dup (B8I1406-MSD2)		Source: Y809177-05			Prepared: 09/14/2018 Analyzed: 09/17/2018					
Benzene	64.7	1.00	ug/L	50.0	ND	129	74-130	1.46	20	
Toluene	63.4	1.00	"	50.0	ND	127	73-131	2.71	20	
Ethylbenzene	63.3	1.00	"	50.0	ND	127	76-132	2.00	20	
m,p-Xylene	125	2.00	"	100	ND	125	69-139	1.42	20	
o-Xylene	63.9	1.00	"	50.0	ND	128	74-131	0.780	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

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### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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