

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)
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
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



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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)
	9/16/2010	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
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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



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	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
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



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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)
	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
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



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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)
	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
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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



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	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
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	PVC Blocked - 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



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	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
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
MW09	4/27/2010	5100	20000	790	7200	9.80	86.98
	6/15/2010	3200	57000	450	5600	8.55	88.15



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)
	9/16/2010	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
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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



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	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
MW11	5/25/2010	<1.0	1.2	<1.0	2.8	NM	NA
	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



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				9.73	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
MW12	5/25/2010	<1.0	2000	250	4100	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
	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	3400	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	1500	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	3300	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



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	<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
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
	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



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	10.33	87.28
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.51	88.10
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
	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
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



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	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
	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
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MW16	6/29/2010	48000	68000	410	4800	9.61	NA
	9/16/2010	13000	16000	660	6400	9.33	NA
	12/7/2010	9200	15000	440	6400	10.32	NA
	3/15/2011	20000	18000	170	8000	11.77	NA
	6/27/2011	26000	39000	680	17000	11.78	NA
	9/14/2011	7900	12000	360	6500	9.97	NA
	12/16/2011	6700	6500	1700	5100	10.43	NA
	3/7/2012	7500	7700	150	5000	11.33	NA
	6/25/2012	20000	21000	240	3300	11.38	NA
	9/24/2012	4300	6800	170	5500	11.55	NA
	12/28/2012	Product - Not Sampled				13.96 (1.43)	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)
	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
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
	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



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	<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
MW18	9/16/2010	75	<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	23	<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	6.8	<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	8470	2130	346	1850	11.15	85.22
	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



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)
	6/12/2017	13,500	680	227	1,770	10.79	85.68
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
	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
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



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	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
	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
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



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				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
	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
MW22	9/16/2010	110	<1.0	<1.0	<1.0	11.40	87.27
	12/7/2010	20	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	150	2.9	<1.0	1.5	12.06	86.61
	12/16/2011	130	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	5.6	<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	760	<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	20.1	<10.0	<10.0	<10.0	12.93	85.92



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)
	6/18/2015	3340	470	84.2	419	11.78	87.07
	9/2/2015	2180	<1.0	2.3	4.8	11.14	87.71
	12/10/2015	104	<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
	3/20/2017	<1.00	<1.00	<1.00	<1.00	13.59	85.26
	6/12/2017	65.6	<1.00	<1.00	<1.00	12.95	85.90
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	9.7	<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	22.4	<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	198	<1.00	<1.00	<1.00	9.95	85.59



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)
MW24	10/15/2010	2000	<1.0	<1.0	5.6	11.28	86.74
	12/7/2010	3200	<1.0	<1.0	2.8	12.11	85.91
	3/15/2011	Insufficient Water - Not Sampled				13.61	84.41
	6/27/2011	48	230	19	240	13.68	84.34
	9/14/2011	5500	1.7	<1.0	1.5	11.57	86.45
	12/16/2011	1600	<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	230	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	1370	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	3920	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	10200	7470	334	2940	11.60	86.61
	9/2/2015	10800	156	410	350	10.81	87.40
	12/10/2015	2130	760	154	<100	11.23	86.98
	3/2/2016	5880	373	286	420	11.78	86.43
	9/19/2016	14,400	13,600	690	5,730	10.85	87.36
	12/15/2016	4,690	437	267	1,890	11.95	86.26
	3/20/2017	71.8	<20.0	122	163	13.51	84.70
	6/12/2017	2,730	654	88.2	737	12.66	85.55
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



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	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
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
	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

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)
	9/5/2013	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
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
	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

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)
	6/18/2015	<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
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
	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



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	12.00	84.43
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.10	85.33
COGCC Allowable Levels		5	1000	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

Elev. - elevation

ft bgs - feet below ground surface

GW - groundwater

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable leve

Excavation groundwater depth is approxima





June 19, 2017

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. June 12, 2017. This project is associated with Origins project number Y706144-01.

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	Y706144-01	Water	June 12, 2017 10:00	06/12/2017 15:23
MW02	Y706144-02	Water	June 12, 2017 10:05	06/12/2017 15:23
MW03	Y706144-03	Water	June 12, 2017 10:10	06/12/2017 15:23
MW04	Y706144-04	Water	June 12, 2017 10:15	06/12/2017 15:23
MW05	Y706144-05	Water	June 12, 2017 10:20	06/12/2017 15:23
MW06	Y706144-06	Water	June 12, 2017 10:25	06/12/2017 15:23
MW07R	Y706144-07	Water	June 12, 2017 10:30	06/12/2017 15:23
MW08	Y706144-08	Water	June 12, 2017 10:35	06/12/2017 15:23
MW09	Y706144-09	Water	June 12, 2017 10:40	06/12/2017 15:23
MW10	Y706144-10	Water	June 12, 2017 10:45	06/12/2017 15:23
MW11	Y706144-11	Water	June 12, 2017 10:50	06/12/2017 15:23
MW12	Y706144-12	Water	June 12, 2017 10:55	06/12/2017 15:23
MW13	Y706144-13	Water	June 12, 2017 11:00	06/12/2017 15:23
MW14	Y706144-14	Water	June 12, 2017 11:05	06/12/2017 15:23

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
MW15	Y706144-15	Water	June 12, 2017 11:10	06/12/2017 15:23
MW16R	Y706144-16	Water	June 12, 2017 11:15	06/12/2017 15:23
MW17	Y706144-17	Water	June 12, 2017 11:20	06/12/2017 15:23
MW18	Y706144-18	Water	June 12, 2017 11:25	06/12/2017 15:23
MW19	Y706144-19	Water	June 12, 2017 11:30	06/12/2017 15:23
MW20R	Y706144-20	Water	June 12, 2017 11:35	06/12/2017 15:23
MW21	Y706144-21	Water	June 12, 2017 11:40	06/12/2017 15:23
MW22	Y706144-22	Water	June 12, 2017 11:45	06/12/2017 15:23
MW23	Y706144-23	Water	June 12, 2017 11:50	06/12/2017 15:23
MW24	Y706144-24	Water	June 12, 2017 11:55	06/12/2017 15:23
MW25	Y706144-25	Water	June 12, 2017 12:00	06/12/2017 15:23
MW26	Y706144-26	Water	June 12, 2017 12:05	06/12/2017 15:23
MW27	Y706144-27	Water	June 12, 2017 12:10	06/12/2017 15:23
MW28	Y706144-28	Water	June 12, 2017 12:15	06/12/2017 15:23

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.



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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

ORIGINS
LABORATORY, INC

706144

2/3

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

12-001	MW12	Water	6/12/17	1055	CT/FO	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	MW13	Water		1100		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	MW14	Water		1105		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MW15	Water		1110		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MW16R	Water		1115		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MW17	Water		1120		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
18-001	MW18	Water		1125		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
19-001	MW19	Water		1130		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
20-001	MW20R	Water		1135		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
21-001	MW21	Water		1140		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
22-001	MW22	Water		1145		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
23-001	MW23	Water		1150		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
24-001	MW24	Water		1155		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
25-001	MW25	Water		1200		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 99°C
Turn Around Time: ☐ 24-hr ☒ 48-hr
Same Day: ☐ 72-hr ☐ Standard

Relinquished By: _____ Date / Time: _____
Received By: _____ Date / Time: _____

Relinquished By: *CL* Date / Time: 6/12/17 1523
Received By: *CL* Date / Time: 6-12-17 1523

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



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

706144

3/3

Sample ID	Matrix	Analysis Date	Analysis Time	Vial Type	Replicates	Method
26-001 MW26	Water	6/12/17	1205	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
27-001 MW27	Water	6/12/17	1216	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
28-001 MW28	Water	6/12/17	1215	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 6/12/17 1513

Received By: [Signature] Date / Time: 6-12-17 1513

Relinquished By: _____ Date / Time: _____

Received By: _____ Date / Time: _____

Temperature on Receipt: 7.1°C

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

Origins Laboratory, Inc.

Jefe Pellegrini

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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

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

Sample Receipt Checklist

Origins Work Order: 47061-14

Client: LTE

Client Project ID: KMA-HSR-Dreyer 5-5

Checklist Completed by: [Signature]

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-12-17 1710

Airbill #: NA

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

Cooler Number/Temperature: 1 9.9 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 1007

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"/>		sampled sun dry
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		no only 1 used received for MW-27 only 2 used received for MW-28
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" 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 checked="" 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: [Signature] (Project Manager)

Date/Time Reviewed: 6/13/17

Origins Laboratory, Inc.

[Signature]

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

6/12/2017 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-01 (Water)

BTEX by EPA 8260C

Benzene	2770	50.0	ug/L	50	B7F1301	06/13/2017	06/13/2017
Toluene	47400	500	"	500	"	"	06/14/2017
Ethylbenzene	570	50.0	"	50	"	"	06/13/2017
Xylenes, total	7690	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	104 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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

MW02

6/12/2017 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	5.47	1.00	"	"	"	"	"	
Ethylbenzene	20.6	1.00	"	"	"	"	"	
Xylenes, total	213	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114			"	"	"	

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

MW03

6/12/2017 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW04

6/12/2017 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114			"	"	"	

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MW05

6/12/2017 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	98.0 %	84-114			"	"	"	

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MW06

6/12/2017 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-06 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	420	4.00	"	"	"	"	"	
Xylenes, total	5100	50.0	"	50	"	"	06/13/2017	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121			"	"	06/13/2017	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	84-114			"	"	"	

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MW07R

6/12/2017 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-07 (Water)

BTEX by EPA 8260C

Benzene	479	100	ug/L	100	B7F1301	06/13/2017	06/13/2017
Toluene	7810	100	"	"	"	"	"
Ethylbenzene	299	100	"	"	"	"	"
Xylenes, total	4050	100	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	"

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MW08

6/12/2017 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	97.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

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Project: KMG - HSR-Dreyer 5-5

MW09

6/12/2017 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-09 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B7F1301	06/13/2017	06/13/2017	U
Toluene	19.4	4.00	"	"	"	"	"	
Ethylbenzene	740	50.0	"	50	"	"	06/13/2017	
Xylenes, total	10800	50.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121			"	"	06/13/2017	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114			"	"	"	

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Project: KMG - HSR-Dreyer 5-5

MW10

6/12/2017 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-10 (Water)

BTEX by EPA 8260C

Benzene	24.0	4.00	ug/L	4	B7F1301	06/13/2017	06/14/2017
Toluene	7200	50.0	"	50	"	"	06/13/2017
Ethylbenzene	467	4.00	"	4	"	"	06/14/2017
Xylenes, total	3380	50.0	"	50	"	"	06/13/2017

Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.7 %	84-114	"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW11

6/12/2017 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

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

101 % 84-121
101 % 85-115
96.0 % 84-114

" " "
" " "
" " "

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW12

6/12/2017 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

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

101 % 84-121
101 % 85-115
97.0 % 84-114

" " "
" " "
" " "

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW13

6/12/2017 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	99.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

MW14

6/12/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

MW15

6/12/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	97.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW16R

6/12/2017 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-16 (Water)

BTEX by EPA 8260C

Benzene	14200	200	ug/L	200	B7F1301	06/13/2017	06/13/2017
Toluene	13200	200	"	"	"	"	"
Ethylbenzene	322	200	"	"	"	"	"
Xylenes, total	4370	200	"	"	"	"	"

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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Project: KMG - HSR-Dreyer 5-5

MW17

6/12/2017 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	99.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW18

6/12/2017 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-18 (Water)

BTEX by EPA 8260C

Benzene	13500	100	ug/L	100	B7F1301	06/13/2017	06/14/2017
Toluene	680	4.00	"	4	"	"	06/13/2017
Ethylbenzene	227	4.00	"	"	"	"	"
Xylenes, total	1770	4.00	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	94.7 %	84-121			"	"	"
Surrogate: Toluene-d8	100 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114			"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW19

6/12/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-19 (Water)

BTEX by EPA 8260C

Benzene	14000	200	ug/L	200	B7F1301	06/13/2017	06/13/2017
Toluene	33800	200	"	"	"	"	"
Ethylbenzene	658	200	"	"	"	"	"
Xylenes, total	8430	200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"	"

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Arvada CO 80003

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Project: KMG - HSR-Dreyer 5-5

MW20R

6/12/2017 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-20 (Water)

BTEX by EPA 8260C

Benzene	24000	200	ug/L	200	B7F1301	06/13/2017	06/13/2017
Toluene	17500	200	"	"	"	"	"
Ethylbenzene	334	200	"	"	"	"	"
Xylenes, total	4610	200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW21

6/12/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-21 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	97.7 %	84-114	"	"	"

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

MW22

6/12/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-22 (Water)

BTEX by EPA 8260C

Benzene	65.6	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	
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	98.7 %	84-114			"	"	"	

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4600 West 60th Avenue
Arvada CO 80003

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

MW23

6/12/2017 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-23 (Water)

BTEX by EPA 8260C

Benzene	198	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	
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	97.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

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

MW24

6/12/2017 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-24 (Water)

BTEX by EPA 8260C

Benzene	2730	20.0	ug/L	20	B7F1301	06/13/2017	06/14/2017
Toluene	654	4.00	"	4	"	"	06/13/2017
Ethylbenzene	88.2	4.00	"	"	"	"	"
Xylenes, total	737	4.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	99.3 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"	"

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

MW25

6/12/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-25 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114	"	"	"

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Arvada CO 80003

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

MW26

6/12/2017 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-26 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

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

102 % 84-121
100 % 85-115
101 % 84-114

" " "
" " "
" " "

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

MW27

6/12/2017 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706144-27 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114	"	"	"

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

MW28

6/12/2017 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y706144-28 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7F1301	06/13/2017	06/13/2017	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	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	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 B7F1301 - EPA 5030B (Water)

Blank (B7F1301-BLK1)

Prepared: 06/13/2017 Analyzed: 06/13/2017

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	61		"	62.5	98.2		84-121			
Surrogate: Toluene-d8	64		"	62.5	103		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.1		84-114			

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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
Batch B7F1301 - EPA 5030B (Water)										
Blank (B7F1301-BLK2)					Prepared: 06/13/2017 Analyzed: 06/13/2017					
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		100	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	84-114			

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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
Batch B7F1301 - EPA 5030B (Water)										
LCS (B7F1301-BS1)					Prepared: 06/13/2017 Analyzed: 06/13/2017					
Benzene	44.5	1.00	ug/L	50.0		88.9	73.3-129			
Toluene	44.7	1.00	"	50.0		89.4	76.2-123			
Ethylbenzene	40.7	1.00	"	50.0		81.3	73.6-130			
m,p-Xylene	88.4	2.00	"	100		88.4	76.1-126			
o-Xylene	43.2	1.00	"	50.0		86.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 B7F1301 - EPA 5030B (Water)

LCS (B7F1301-BS2)

Prepared: 06/13/2017 Analyzed: 06/13/2017

Benzene	47.1	1.00	ug/L	50.0		94.2	73.3-129			
Toluene	47.1	1.00	"	50.0		94.3	76.2-123			
Ethylbenzene	43.8	1.00	"	50.0		87.5	73.6-130			
m,p-Xylene	95.4	2.00	"	100		95.4	76.1-126			
o-Xylene	44.9	1.00	"	50.0		89.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.4	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

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Brian Sulzberger
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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 B7F1301 - EPA 5030B (Water)

Matrix Spike (B7F1301-MS1)		Source: Y706130-01			Prepared: 06/13/2017 Analyzed: 06/13/2017					
Benzene	49.1	1.00	ug/L	50.0	ND	98.2	74-130			
Toluene	50.4	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	45.9	1.00	"	50.0	ND	91.8	76-132			
m,p-Xylene	100	2.00	"	100	ND	100	69-139			
o-Xylene	46.9	1.00	"	50.0	ND	93.8	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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 B7F1301 - EPA 5030B (Water)

Matrix Spike (B7F1301-MS2)		Source: Y706130-03			Prepared: 06/13/2017 Analyzed: 06/13/2017					
Benzene	61.6	1.00	ug/L	50.0	1.14	121	74-130			
Toluene	64.2	1.00	"	50.0	ND	128	73-131			
Ethylbenzene	63.9	1.00	"	50.0	7.17	114	76-132			
m,p-Xylene	130	2.00	"	100	ND	130	69-139			
o-Xylene	61.0	1.00	"	50.0	ND	122	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	84-114			

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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 B7F1301 - EPA 5030B (Water)

Matrix Spike Dup (B7F1301-MSD1)		Source: Y706130-01			Prepared: 06/13/2017 Analyzed: 06/13/2017					
Benzene	62.1	1.00	ug/L	50.0	ND	124	74-130	23.4	20	QR-02
Toluene	64.4	1.00	"	50.0	ND	129	73-131	24.3	20	QR-02
Ethylbenzene	58.3	1.00	"	50.0	ND	117	76-132	23.8	20	QR-02
m,p-Xylene	128	2.00	"	100	ND	128	69-139	24.3	20	QR-02
o-Xylene	59.7	1.00	"	50.0	ND	119	74-131	24.1	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	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 B7F1301 - EPA 5030B (Water)

Matrix Spike Dup (B7F1301-MSD2)		Source: Y706130-03			Prepared: 06/13/2017 Analyzed: 06/13/2017					
Benzene	59.1	1.00	ug/L	50.0	1.14	116	74-130	4.23	20	
Toluene	60.9	1.00	"	50.0	ND	122	73-131	5.39	20	
Ethylbenzene	60.4	1.00	"	50.0	7.17	107	76-132	5.60	20	
m,p-Xylene	124	2.00	"	100	ND	124	69-139	5.23	20	
o-Xylene	57.1	1.00	"	50.0	ND	114	74-131	6.49	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	84-114			

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

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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