

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
FGW01	10/30/2006	2900	4100	200	3400	18	NA
MW01	5/22/2007	170	<1.0	11	180	24.21	73.39
	6/7/2007	Not Sampled				NM	79.25
	8/23/2007	<1.0	<1.0	<1.0	<1.0	15.50	82.10
	11/2/2007	<1.0	<1.0	<1.0	<1.0	14.80	82.80
	2/20/2008	<1.0	<1.0	<1.0	<1.0	18.11	79.49
	5/28/2008	<1.0	<1.0	<1.0	<1.0	17.33	80.27
	8/25/2008	<1.0	<1.0	<1.0	<1.0	14.95	82.65
	12/1/2008	<1.0	<1.0	<1.0	<1.0	14.00	83.60
	2/16/2009	<1.0	<1.0	<1.0	<1.0	16.42	81.18
	5/22/2009	<1.0	<1.0	<1.0	<1.0	15.10	82.50
	8/31/2009	<1.0	<1.0	<1.0	<1.0	11.72	85.88
	11/24/2009	<1.0	<1.0	<1.0	<1.0	10.84	86.76
	2/25/2010	<1.0	<1.0	<1.0	<1.0	16.47	81.22
	5/13/2010	<1.0	<1.0	<1.0	<1.0	15.95	81.65
	8/30/2010	<1.0	<1.0	<1.0	<1.0	12.21	85.39
	11/23/2010	<1.0	<1.0	<1.0	<1.0	13.44	84.16
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.95	81.65
	5/25/2011	<1.0	<1.0	<1.0	<1.0	15.21	82.39
	8/25/2011	<1.0	<1.0	<1.0	<1.0	11.66	85.94
	11/29/2011	<1.0	<1.0	<1.0	<1.0	12.73	84.87
	2/23/2012	<1.0	<1.0	<1.0	<1.0	15.74	81.86
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.93	82.67
	8/28/2012	<1.0	<1.0	<1.0	<1.0	14.50	83.10
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.31	82.29
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.70	78.90
	5/30/2013	<1.0	<1.0	<1.0	<1.0	17.79	79.81
	8/26/2013	<1.0	<1.0	1.5	<1.0	14.20	83.40
	11/18/2013	<1.0	<1.0	<1.0	<1.0	11.91	85.69
	12/10/2013	Surveyed - Not Sampled				13.22	84.65
	2/11/2014	<1.0	<1.0	<1.0	<1.0	14.79	82.81
	5/23/2014	<1.0	<1.0	<1.0	<1.0	13.51	84.36
	9/30/2014	<1.0	<1.0	<1.0	<1.0	10.97	86.90
	11/25/2014	<1.0	<1.0	<1.0	<1.0	10.32	87.55
	2/19/2015	<1.0	<1.0	<1.0	<1.0	14.45	83.42
	5/26/2015	<1.0	<1.0	<1.0	<1.0	12.98	84.89



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/31/2015	<1.0	<1.0	<1.0	<1.0	11.45	86.42
	11/30/2015	<1.0	<1.0	<1.0	<1.0	12.97	84.91
	2/22/2016	<1.0	<1.0	<1.0	<1.0	15.87	82.00
	5/2/2016	<1.00	<1.00	<1.00	<1.00	15.26	82.61
	8/26/2016	<1.00	<1.00	<1.00	<1.00	13.24	84.63
	11/29/2016	<1.00	<1.00	<1.00	<1.00	13.44	84.16
	2/1/2017	<1.00	<1.00	<1.00	<1.00	15.94	81.66
MW02	5/22/2007	22000	26000	2300	62000	19.35	78.40
	6/7/2007	Not Sampled				NM	79.20
	8/23/2007	23000	21000	510	14000	15.70	82.05
	11/2/2007	22000	19000	970	18000	14.95	82.80
	2/20/2008	18000	11000	770	12000	18.25	79.50
	5/28/2008	19000	11000	820	14000	17.49	80.26
	8/25/2008	15000	7000	890	12000	15.15	82.60
	12/1/2008	14000	9800	790	33000	13.15	83.60
	2/16/2009	19000	2500	570	5400	16.91	80.84
	5/22/2009	7300	1900	460	7200	15.29	82.46
	8/31/2009	15000	860	470	7700	11.93	85.82
	11/24/2009	13000	280	<1.0	14000	13.08	84.67
	2/25/2010	14000	1100	100	400	16.77	80.98
	5/13/2010	14000	1500	720	37000	16.13	81.62
	8/30/2010	7500	1900	150	8200	12.77	84.98
	11/23/2010	73	450	470	13000	13.60	84.15
	2/24/2011	42	130	150	5000	16.15	81.60
	5/25/2011	9.7	930	540	12000	15.36	82.39
	7/25/2011	9.9	120	55	3600	12.44	85.31
	8/25/2011	35	190	89	4500	11.85	85.90
	11/29/2011	9.1	52	29	2700	12.90	84.85
	2/23/2012	3.4	61	27	950	15.94	81.81
	5/22/2012	<1.0	1.0	<1.0	8.3	15.20	82.55
	8/28/2012	2.6	8.9	13	790	14.72	83.03
	11/28/2012	4.4	1.4	16	80	15.53	82.22
	2/27/2013	5.9	2.1	39	200	18.95	78.80
	5/30/2013	<1.0	<1.0	15	50	18.01	79.74
	8/26/2013	1.1	<1.0	22	57	14.41	83.34
	11/18/2013	<1.0	<1.0	3.9	28	12.10	85.65



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	12/10/2013	Surveyed - Not Sampled				13.19	84.62
	2/11/2014	1.4	<1.0	15.2	270	14.99	82.76
	5/23/2014	1.1	<1.0	25.5	341	13.50	84.31
	9/30/2014	<1.0	<1.0	24.8	286	10.96	86.85
	11/25/2014	2.6	1	77.7	1210	10.38	87.43
	2/19/2015	<2.0	<2.0	22.7	221	14.43	83.38
	5/26/2015	<2.0	<2.0	56	382	12.98	84.83
	8/31/2015	1.1	1.7	45.6	225	11.46	86.35
	11/30/2015	1.2	4.4	63.1	494	12.95	84.86
	2/22/2016	1.8	<1.0	24.5	58.3	15.85	81.96
	5/2/2016	<4.00	<4.00	35.4	292	15.25	82.56
	8/26/2016	<1.00	<1.00	36.5	123	13.20	84.61
	11/29/2016	1.21	<1.00	52.0	108	13.63	84.12
	2/1/2017	1.37	<1.00	30.9	71.0	15.96	81.79
MW03	5/22/2007	1100	2200	300	5400	18.35	78.39
	6/7/2007	Not Sampled				NM	79.25
	8/23/2007	110	97	39	160	14.65	82.09
	11/2/2007	120	5.4	14	18	13.90	82.84
	2/20/2008	1100	160	170	650	17.30	79.44
	5/28/2008	22	43	36	69	16.48	80.26
	8/25/2008	5.4	47	23	210	14.10	82.64
	12/1/2008	330	120	86	610	13.15	83.59
	2/16/2009	16	22	14	53	15.97	80.77
	5/22/2009	11	24	23	110	14.22	82.52
	8/31/2009	<1.0	74	44	190	11.71	85.03
	11/24/2009	5.8	6.5	48	170	12.05	84.69
	2/25/2010	3.2	24	40	79	15.70	81.04
	5/13/2010	<1.0	9.3	17	62	15.09	81.65
	8/30/2010	<1.0	27	68	820	13.15	83.59
	11/23/2010	<1.0	3.7	39	2100	12.60	84.14
	2/24/2011	<1.0	18	120	1900	15.15	81.59
	5/25/2011	<1.0	<1.0	44	490	14.33	82.41
	8/25/2011	<1.0	<1.0	15	230	10.80	85.94
	11/29/2011	<1.0	<1.0	5.2	87	12.00	84.74
	2/23/2012	<1.0	<1.0	68	900	14.90	81.84
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.17	82.57



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/28/2012	<1.0	<1.0	7.8	91	13.66	83.08
	11/28/2012	<1.0	<1.0	3.8	36	14.25	82.49
	2/27/2013	<1.0	<1.0	6.4	81	17.62	79.12
	5/30/2013	<1.0	<1.0	3.3	47	11.45	85.29
	8/26/2013	<1.0	<1.0	1.5	7.1	8.05	88.69
	11/18/2013	<1.0	<1.0	<1.0	2.2	11.05	85.69
	12/10/2013	Surveyed - Not Sampled				12.80	84.64
	2/11/2014	<1.0	<1.0	<1.0	3.6	13.94	82.80
	5/23/2014	<1.0	<1.0	<1.0	4.6	13.07	84.37
	9/30/2014	<1.0	<1.0	<1.0	<1.0	10.53	86.91
	11/25/2014	<1.0	<1.0	<1.0	<1.0	9.79	87.65
	2/19/2015	<1.0	<1.0	<1.0	<1.0	14.98	82.46
	5/26/2015	<1.0	<1.0	<1.0	<1.0	12.51	84.93
	8/31/2015	<1.0	<1.0	<1.0	<1.0	11.01	86.43
	11/30/2015	<1.0	<1.0	<1.0	<1.0	12.54	84.90
	2/22/2016	<1.0	<1.0	<1.0	<1.0	15.46	81.98
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.81	82.63
	8/26/2016	<1.00	<1.00	<1.00	<1.00	12.79	84.65
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.60	84.14
	2/1/2017	<1.00	<1.00	<1.00	<1.00	15.16	81.58
<hr/>							
MW04	8/23/2007	<1.0	<1.0	<1.0	<1.0	15.30	81.95
	11/2/2007	<1.0	<1.0	<1.0	<1.0	14.53	82.72
	2/20/2008	Dry - Not Sampled				Dry	NA
	5/28/2008	<1.0	<1.0	<1.0	<1.0	17.17	80.08
	8/25/2008	<1.0	<1.0	<1.0	<1.0	14.73	82.52
	12/1/2008	<1.0	<1.0	<1.0	<1.0	13.78	83.47
	2/16/2009	Insufficient Water - Not Sampled				17.81	79.44
	5/22/2009	<1.0	<1.0	<1.0	<1.0	14.87	82.38
	8/31/2009	<1.0	<1.0	<1.0	<1.0	11.57	85.68
	11/24/2009	<1.0	<1.0	<1.0	<1.0	12.74	84.51
	2/25/2010	Frozen - Not Sampled				Frozen	NA
	5/13/2010	<1.0	<1.0	<1.0	<1.0	15.85	81.40
	8/30/2010	<1.0	<1.0	<1.0	12	11.98	85.27
	11/23/2010	<1.0	<1.0	<1.0	<1.0	13.20	84.05
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.88	81.37
	5/25/2011	<1.0	<1.0	<1.0	<1.0	15.08	82.17



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/25/2011	<1.0	<1.0	<1.0	<1.0	11.43	85.82
	11/29/2011	<1.0	<1.0	<1.0	<1.0	14.55	82.70
	2/23/2012	<1.0	<1.0	<1.0	<1.0	15.54	81.71
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.65	82.60
	8/28/2012	<1.0	<1.0	<1.0	<1.0	14.29	82.96
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.91	81.34
	2/27/2013	Not Sampled due to snow cover				Not Found	NA
	8/26/2013	<1.0	<1.0	<1.0	<1.0	14.10	93.15
	8/28/2013	Removed from monitoring				NM	NA
	12/10/2013	Surveyed - Not Sampled				12.01	84.54
MW05	8/23/2007	18000	11000	640	9300	15.00	NA
	11/2/2007	21000	12000	660	10000	14.23	NA
	2/20/2008	19000	11000	870	12000	17.60	NA
	5/28/2008	23000	15000	970	13000	16.82	NA
	8/25/2008	11000	1200	880	9000	14.43	NA
	12/1/2008	22000	18	710	10000	13.51	NA
	2/16/2009	10000	430	630	740	16.68	NA
	5/22/2009	9100	1100	480	4900	14.58	NA
	8/31/2009	8300	26	600	5600	11.38	NA
	11/24/2009	11000	16	6500	9900	11.62	NA
	2/25/2010	Frozen - Not Sampled				Frozen	NA
	5/13/2010	26000	1800	620	540	15.43	NA
	8/30/2010	17	1.0	2.8	400	12.15	NA
	11/23/2010	2.9	<1.0	4.6	79	12.93	NA
	2/24/2011	1.5	6.8	3.2	94	14.50	NA
	5/25/2011	220	3200	160	2300	13.55	NA
	7/25/2011	<1.0	<1.0	<1.0	<1.0	11.74	NA
	8/25/2011	12	<1.0	1.3	18	11.18	NA
	11/29/2011	<1.0	<1.0	<1.0	<1.0	12.30	NA
	2/23/2012	<1.0	<1.0	<1.0	<1.0	15.30	NA
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.50	NA
	8/28/2012	<1.0	<1.0	3.8	29	14.01	NA
	11/29/2012	<1.0	<1.0	<1.0	2.8	15.60	NA
	2/27/2013	<1.0	1.1	260	1900	18.60	NA
	5/30/2013	<1.0	<1.0	<1.0	11	17.32	NA
	8/26/2013	<1.0	130	84	1200	13.80	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	11/18/2013	3.7	5.0	122	1980	11.40	NA
	12/10/2013	Surveyed - Not Sampled				11.95	NA
	2/11/2014	Not Found - Not Sampled				Not Found	NA
	2/26/2014	<4.0	<4.0	161	720	14.35	NA
	5/23/2014	4.5	2.0	431	5180	12.74	NA
	9/30/2014	<1.0	<1.0	1.0	6.9	10.23	NA
	11/25/2014	<1.0	<1.0	<1.0	3.6	11.76	NA
	2/19/2015	<1.0	<1.0	<1.0	<1.0	14.08	NA
	5/26/2015	<1.0	<1.0	6.4	45.1	12.65	NA
	8/31/2015	<1.0	<1.0	8.4	80.2	11.09	NA
	11/30/2015	<1.0	<1.0	7.1	63.6	12.62	NA
	2/22/2016	<1.0	<1.0	11	46.7	15.49	NA
	5/2/2016	<1.00	<1.00	<1.00	5.26	14.92	NA
	8/26/2016	<1.00	<1.00	<1.00	<1.00	12.86	NA
	11/29/2016	<1.00	<1.00	1.82	<1.00	13.34	NA
	2/1/2017	1.66	<1.00	1.51	20.9	15.86	NA
<hr/>							
MW06	8/23/2007	8.4	2.2	1.2	9.0	14.90	81.93
	11/2/2007	<1.0	<1.0	<1.0	<1.0	14.05	82.78
	2/20/2008	<1.0	<1.0	<1.0	<1.0	17.48	79.35
	5/28/2008	<1.0	<1.0	<1.0	<1.0	16.70	80.13
	8/25/2008	<1.0	<1.0	<1.0	<1.0	14.32	82.51
	12/1/2008	<1.0	<1.0	<1.0	<1.0	13.32	83.51
	2/16/2009	<1.0	<1.0	<1.0	<1.0	16.48	80.35
	5/22/2009	<1.0	<1.0	<1.0	<1.0	14.43	82.40
	8/31/2009	<1.0	<1.0	<1.0	<1.0	11.12	85.71
	11/24/2009	<1.0	<1.0	<1.0	<1.0	11.38	85.45
	2/25/2010	Frozen - Not Sampled				Frozen	NA
	5/13/2010	<1.0	<1.0	<1.0	<1.0	15.28	81.55
	8/30/2010	<1.0	<1.0	<1.0	<1.0	11.16	85.67
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.75	84.08
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.25	81.58
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.37	82.46
	8/25/2011	<1.0	<1.0	<1.0	<1.0	10.94	85.89
	11/29/2011	<1.0	<1.0	<1.0	<1.0	12.00	84.83
	2/23/2012	<1.0	<1.0	<1.0	<1.0	15.05	81.78
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.28	82.55



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.84	82.99
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.42	81.41
	2/27/2013	Not Sampled due to snow cover				Not Found	NA
	5/30/2013	<1.0	<1.0	<1.0	<1.0	17.15	79.68
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.60	83.23
	8/28/2013	Removed from monitoring				NM	NA
	12/10/2013	Surveyed - Not Sampled				11.69	84.58
MW07	4/9/2008	<1.0	<1.0	<1.0	<1.0	23.82	74.16
	5/28/2008	<1.0	<1.0	<1.0	<1.0	17.12	80.68
	8/25/2008	<1.0	<1.0	<1.0	<1.0	13.45	84.53
	12/1/2008	14	120	120	1300	13.79	84.19
	2/16/2009	<1.0	<1.0	7.3	26	16.73	81.25
	5/22/2009	1.1	<1.0	11	43	14.87	83.11
	8/31/2009	<1.0	<1.0	160	590	11.53	86.45
	11/24/2009	<1.0	<1.0	35	<1.0	12.67	85.31
	2/25/2010	<1.0	<1.0	<1.0	3.6	16.28	81.70
	5/13/2010	<1.0	<1.0	<1.0	<1.0	15.77	82.21
	8/30/2010	<1.0	6.5	390	3900	11.90	86.08
	11/23/2010	<1.0	<1.0	2.7	<1.0	13.21	84.77
	2/24/2011	<1.0	<1.0	<1.0	<1.0	16.60	81.38
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.95	83.03
	8/25/2011	<1.0	<1.0	81	<1.0	11.00	87.71
	11/29/2011	<1.0	<1.0	<1.0	<1.0	12.10	86.61
	2/23/2012	<1.0	<1.0	<1.0	<1.0	15.07	83.64
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.30	84.41
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.91	84.80
	11/28/2012	<1.0	<1.0	<1.0	<1.0	15.55	83.16
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.53	80.18
	5/30/2013	<1.0	<1.0	<1.0	<1.0	17.25	81.46
	8/26/2013	<1.0	<1.0	<1.0	<1.0	15.57	83.14
	11/18/2013	<1.0	<1.0	135	35.3	11.21	85.45
	12/10/2013	Surveyed - Not Sampled				12.31	84.43
	2/11/2014	<1.0	<1.0	<1.0	<1.0	14.06	82.60
	5/23/2014	<1.0	<1.0	1.9	<1.0	12.63	84.11
	9/30/2014	<1.0	<1.0	83.9	277	10.10	86.64
	11/25/2014	<1.0	<1.0	8.8	10.5	9.26	87.48



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/19/2015	<1.0	<1.0	<1.0	<1.0	13.54	83.20
	5/26/2015	<1.0	<1.0	31.4	62.3	12.15	84.59
	8/31/2015	<1.0	<1.0	5.3	2.1	10.60	86.14
	11/30/2015	<1.0	<1.0	<1.0	2.0	12.08	84.66
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.93	81.81
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.33	82.41
	8/26/2016	<1.00	<1.00	<1.00	<1.00	12.33	84.41
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.70	83.96
MW08	4/9/2008	27000	23000	990	14000	17.92	NA
	5/28/2008	26000	17000	920	13000	16.31 (0.01)	NA
	8/25/2008	23000	16000	880	12000	14.33	NA
	12/1/2008	24000	35000	30000	190000	12.73	NA
	2/16/2009	Product - Not Sampled				15.89 (0.1)	NA
	5/22/2009	Product - Not Sampled				13.63	NA
	8/31/2009	Product - Not Sampled				10.72 (0.70)	NA
	11/24/2009	Product - Not Sampled				PVC Bent	NA
	2/25/2010	Product - Not Sampled				NM	NA
	8/30/2010	14000	3200	260	4500	PVC Bent	NA
	11/23/2010	17000	3600	340	5700	PVC Blocked	NA
	2/24/2011	16000	5700	240	4400	PVC Blocked	NA
	5/25/2011	3500	490	68	1400	PVC Blocked	NA
	7/25/2011	13000	3600	120	4300	11.27	NA
	8/25/2011	28000	8200	540	6700	PVC Blocked	NA
	11/29/2011	21000	11000	640	10000	11.68	NA
	2/23/2012	18000	12000	460	8100	13.05	NA
	5/10/2012	360	340	57	1000	13.86	NA
	5/18/2012	17000	16000	3000	19000	14.33	NA
	5/22/2012	9400	7000	110	7900	15.35	NA
	6/4/2012	14000	11000	250	8700	13.92	NA
	8/28/2012	6100	6800	290	8700	13.72	NA
	10/5/2012	<1.0	<1.0	<1.0	<1.0	14.23	NA
	10/17/2012	1800	720	<1.0	2100	14.83	NA
	11/5/2012	7300	10000	340	8100	14.61	NA
	11/13/2012	1200	1700	100	1600	15.02	NA
	11/29/2012	4600	8800	490	7800	15.26	NA
	2/27/2013	3300	9500	570	9100	18.26	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	12/10/2013	Surveyed - Not Sampled				12.41	NA
	11/25/2014	Destroyed - Not Sampled				NM	NA
	MW08 destroyed as of 11/25/2014						
MW08R	5/30/2013	<1.0	<1.0	<1.0	<1.0	17.50	79.53
	8/26/2013	100	59	7.1	69	13.86	83.17
	11/18/2013	7.5	2.9	1.0	15.5	11.21	85.46
	2/11/2014	18.2	1.1	82.5	318	14.09	82.58
	5/23/2014	21.3	1.0	197	1220	12.76	84.07
	9/30/2014	42.8	14.4	314	7180	7.57	89.26
	12/10/2014	<1.0	<1.0	<1.0	<1.0	6.69	90.14
	2/19/2015	<1.0	<1.0	<1.0	<1.0	13.63	83.20
	3/16/2015	<1.0	1.5	<1.0	2.0	13.68	83.15
	5/26/2015	8.3	172	52.3	607	12.25	84.58
	9/3/2015	<1.0	<1.0	<1.0	<1.0	10.65	86.18
	11/30/2015	<1.0	1.0	20.3	202	12.18	84.65
	1/21/2016	<1.0	<1.0	<1.0	<1.0	14.20	82.63
	2/22/2016	<1.0	2.1	1	24.6	15.08	81.75
	3/28/2016	2.8	<1.0	18.6	118	15.30	81.53
	5/2/2016	<1.00	<1.00	182	847	14.53	82.30
	8/26/2016	<4.00	<4.00	<4.00	1,080	12.46	84.37
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.76	83.91
	2/1/2017	11.4	375	24.7	2,690	15.08	81.59
	2/23/2017	3.55	33.2	<1.00	813	NM	NA
MW09	4/9/2008	1800	23000	1100	16000	17.75	78.38
	5/28/2008	79	1500	220	220	16.08	80.05
	8/25/2008	210	2400	400	2900	13.85	82.28
	12/1/2008	55	800	360	5500	16.71	83.42
	2/16/2009	16	330	170	500	15.73	80.40
	5/22/2009	1.4	820	240	2200	13.85	82.28
	8/31/2009	7.6	1700	200	3200	10.51	85.62
	11/24/2009	5.0	1900	240	2200	PVC Bent	NA
	2/25/2010	5.8	2100	140	250	PVC Bent	NA
	5/13/2010	8.3	28000	280	3800	PVC Bent	NA
	8/30/2010	2.6	990	230	2900	PVC Bent	NA
	11/23/2010	1.0	140	170	510	PVC Bent	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/24/2011	1.2	88	120	1400	PVC Bent	NA
	5/25/2011	<1.0	31	35	360	PVC Bent	NA
	8/25/2011	<1.0	54	120	1100	PVC Bent	NA
	11/29/2011	<1.0	20	140	1400	PVC Bent	NA
	2/23/2012	<10	<10	<1.0	<1.0	PVC Bent	NA
	5/22/2012	1.2	97	100	320	PVC Bent	NA
	8/28/2012	<1.0	1.3	5.3	81	PVC Bent	NA
	11/28/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	2/27/2013	<1.0	98	48	1000	PVC Bent	NA
	5/30/2013	<1.0	130	110	1800	PVC Blocked	NA
	8/26/2013	<1.0	18	42	620	PVC Bent	NA
	11/18/2013	<1.0	<1.0	4.5	60.6	PVC Blocked	NA
	12/10/2013	Surveyed - Not Sampled				11.95	84.43
	2/11/2014	<1.0	<1.0	9.9	168	PVC Blocked	NA
	5/23/2014	<1.0	3.3	124	1540	PVC Bent	NA
	9/30/2014	<1.0	<1.0	105	495	PVC Blocked	NA
	11/25/2014	<1.0	<1.0	95.2	921	NM	NA
	2/19/2015	<1.0	<1.0	48.9	777	PVC Bent	NA
	5/26/2015	<4.0	<4.0	6.6	98.4	11.70	84.68
	8/31/2015	<1.0	<1.0	1.9	21	9.15	87.23
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.66	84.72
	2/22/2016	<1.0	<1.0	2.3	6.6	14.56	81.82
	5/2/2016	<1.00	<1.00	7.44	110	13.87	82.51
	8/26/2016	<1.00	<1.00	<1.00	<1.00	11.77	84.61
	11/29/2016	<1.00	<1.00	<1.00	<1.00	11.21	84.04
	2/1/2017	<1.00	<1.00	<1.00	<1.00	13.65	81.60
<hr/>							
MW10	9/26/2008	3200	<1.0	100	380	12.37	82.12
	12/1/2008	6300	33	270	780	13.00	81.55
	2/16/2009	18000	<1.0	520	290	16.00	78.55
	5/22/2009	13000	3	360	2700	14.11	80.44
	8/31/2009	35000	3.4	480	5700	10.74	83.81
	11/24/2009	31000	3.2	<1.0	8600	PVC Bent	NA
	2/25/2010	14000	1.6	180	120	PVC Bent	NA
	5/13/2010	12000	2.0	1500	9800	PVC Bent	NA
	8/30/2010	3.4	<1.0	<1.0	4.6	PVC Bent	NA
	11/23/2010	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/24/2011	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	5/25/2011	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	8/25/2011	860	8.5	3.3	69	PVC Bent	NA
	11/29/2011	4.3	<1.0	1.3	16	PVC Bent	NA
	2/23/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	5/22/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	8/28/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	11/29/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	2/27/2013	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	5/30/2013	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	8/26/2013	16	<1.0	7.8	89	11.46	83.04
	11/18/2013	1.3	<1.0	<1.0	<1.0	10.65	85.29
	12/10/2013	Surveyed - Not Sampled				11.79	84.29
	2/11/2014	12.9	<1.0	<1.0	<1.0	13.54	82.40
	5/23/2014	50.7	<1.0	2.3	5.4	12.16	83.92
	9/30/2014	721	<1.0	16.5	39.8	9.54	86.54
	11/25/2014	2070	<5.0	24	129	9.32	86.76
	2/19/2015	1.3	<1.0	<1.0	<1.0	12.99	83.09
	3/16/2015	<1.0	<1.0	<1.0	<1.0	13.05	83.03
	5/26/2015	3520	<4.0	39.3	<4.0	11.64	84.44
	9/3/2015	<1.0	<1.0	<1.0	<1.0	9.96	86.12
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.48	84.60
	1/21/2016	27.4	<1.0	<1.0	<1.0	13.56	82.52
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.45	81.63
	5/2/2016	139	<1.00	17.4	<1.00	13.87	82.21
	8/26/2016	15.0	<4.00	<4.00	<4.00	11.77	NA
<hr/>							
MW10R	8/26/2016	<1.00	<1.00	<1.00	<1.00	14.37	83.02
	9/26/2016	807	<1.00	142	<1.00	---	NA
	11/29/2016	<1.00	<1.00	<1.00	63.8	12.55	NA
	2/1/2017	<1.00	<1.00	<1.00	451	14.85	NA
	2/23/2017	<1.00	<1.00	25.2	70.5	NM	NA
<hr/>							
MW11	9/26/2008	40	13	1.7	12	12.16	83.83
	12/1/2008	1.0	<1.0	14	8.6	13.04	83.29
	2/16/2009	150	<1.0	<1.0	<1.0	16.08	80.25
	5/22/2009	1600	2200	160	1400	14.17	82.16



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/31/2009	240	81	18	480	10.83	85.50
	11/24/2009	5.1	<1.0	<1.0	2.4	10.94	85.39
	2/25/2010	110	<1.0	4.0	28	PVC Bent	NA
	5/13/2010	1000	140	14	120	15.08	81.25
	8/30/2010	990	860	43	670	11.20	85.13
	11/23/2010	36	9.4	2.9	31	12.46	83.87
	2/24/2011	230	9.3	33	360	15.06	81.27
	5/25/2011	1900	1600	42	800	9.65	86.68
	7/25/2011	<1.0	<1.0	<1.0	<1.0	11.17	85.16
	8/25/2011	19	23	35	290	10.62	85.71
	11/29/2011	3.2	<1.0	3.3	41	11.75	84.58
	2/23/2012	16	<1.0	3.9	58	14.53	81.80
	5/22/2012	7.2	<1.0	<1.0	9.7	13.90	82.43
	8/28/2012	7.5	<1.0	1.2	8.6	13.60	82.73
	10/17/2012	<1.0	<1.0	<1.0	<1.0	14.23	NA
	11/28/2012	<1.0	<1.0	<1.0	<1.0	15.13	81.20
	2/27/2013	130	<1.0	56	280	18.41	77.92
	5/3/2013	74	<1.0	85	910	17.59	78.74
	8/26/2013	<1.0	<1.0	3.0	21	13.29	83.04
	11/18/2013	<1.0	<1.0	<1.0	2.1	10.99	85.34
	12/10/2013	Surveyed - Not Sampled				11.98	84.32
	2/11/2014	<1.0	<1.0	1.2	<1.0	13.86	82.47
	5/23/2014	<1.0	<1.0	6.1	13.6	12.37	83.93
	9/30/2014	<1.0	<1.0	<1.0	<1.0	9.77	86.53
	11/25/2014	<1.0	<1.0	1.1	6.9	8.95	87.35
	2/19/2015	<1.0	<1.0	2.6	9.8	13.21	83.09
	5/26/2015	<1.0	<1.0	4.4	5.2	11.86	84.44
	8/31/2015	<1.0	<1.0	<1.0	<1.0	10.26	86.04
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.75	84.55
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.70	81.60
	3/28/2016	<1.0	<1.0	<1.0	<1.0	14.88	81.42
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.10	82.20
	8/26/2016	<1.00	<1.00	<1.00	<1.00	12.00	84.30
	11/29/2016	<1.00	<1.00	<1.00	<1.00	11.86	83.82
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.71	80.97
MW12	9/26/2008	<1.0	<1.0	<1.0	<1.0	12.50	81.91



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	12/1/2008	<1.0	<1.0	<1.0	<1.0	12.84	81.47
	2/16/2009	<1.0	<1.0	<1.0	<1.0	15.91	78.40
	5/22/2009	<1.0	<1.0	<1.0	<1.0	14.01	80.30
	8/31/2009	<1.0	<1.0	<1.0	<1.0	10.69	83.62
	11/24/2009	<1.0	<1.0	<1.0	<1.0	11.81	82.50
	2/25/2010	<1.0	<1.0	<1.0	<1.0	15.43	78.88
	5/13/2010	<1.0	<1.0	<1.0	<1.0	14.91	79.40
	8/30/2010	<1.0	<1.0	<1.0	<1.0	11.01	83.30
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.32	81.99
	2/24/2011	<1.0	<1.0	<1.0	<1.0	14.91	79.40
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.17	80.14
	8/25/2011	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.58	82.73
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.62	79.69
	5/22/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.46	80.85
	11/29/2012	<1.0	<1.0	<1.0	<1.0	14.52	79.79
	2/27/2013	<1.0	<1.0	<1.0	<1.0	17.80	76.51
	5/30/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/26/2013	<1.0	<1.0	<1.0	<1.0	11.30	83.01
	11/18/2013	<1.0	<1.0	<1.0	<1.0	8.92	85.39
	12/10/2013	Surveyed - Not Sampled				11.95	84.36
	2/11/2014	<1.0	<1.0	<1.0	<1.0	11.80	82.51
	5/23/2014	<1.0	<1.0	<1.0	<1.0	12.31	84.00
	9/30/2014	<1.0	<1.0	<1.0	<1.0	9.00	87.31
	11/25/2014	<1.0	<1.0	<1.0	<1.0	7.53	88.78
	2/19/2015	<1.0	<1.0	<1.0	<1.0	12.43	83.88
	5/26/2015	<1.0	<1.0	<1.0	<1.0	11.07	85.24
	8/31/2015	<1.0	<1.0	<1.0	<1.0	9.69	86.62
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.00	85.31
	2/22/2016	<1.0	<1.0	<1.0	<1.0	13.95	82.36
	5/2/2016	<1.00	<1.00	<1.00	<1.00	13.33	82.98
	8/26/2016	<1.00	<1.00	<1.00	<1.00	13.01	83.30
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.32	84.59
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.77	82.14
MW13	1/13/2010	<1.0	<1.0	<1.0	<1.0	NM	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/25/2010	<1.0	<1.0	<1.0	<1.0	15.65	80.70
	5/13/2010	<1.0	<1.0	<1.0	<1.0	15.18	81.17
	8/30/2010	19	<1.0	<1.0	<1.0	11.27	85.08
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.54	83.81
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.17	81.18
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.39	81.96
	8/25/2011	<1.0	<1.0	<1.0	<1.0	10.73	85.62
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.79	84.56
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.82	81.53
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.09	82.26
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.65	82.70
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.24	81.11
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.61	77.74
	5/30/2013	<1.0	<1.0	<1.0	<1.0	17.01	79.34
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.44	82.91
	8/28/2013	Removed from monitoring				NM	NA
	12/10/2013	Surveyed - Not Sampled				12.11	84.24
MW14	1/13/2010	<1.0	<1.0	<1.0	<1.0	NM	NA
	2/25/2010	<1.0	<1.0	<1.0	<1.0	15.74	79.76
	5/13/2010	<1.0	<1.0	<1.0	<1.0	15.32	80.18
	8/30/2010	<1.0	<1.0	<1.0	<1.0	11.37	84.13
	11/23/2010	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	2/24/2011	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	5/25/2011	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	8/25/2011	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	11/29/2011	Damaged - Not Sampled				PVC Bent	NA
	2/23/2012	Damaged - Not Sampled				PVC Bent	NA
	5/22/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.34	81.74
	11/29/2012	<1.0	<1.0	<1.0	<1.0	14.85	80.23
	2/27/2013	Sample Bottles Broken At Lab				18.20	76.88
	5/30/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/26/2013	<1.0	<1.0	<1.0	<1.0	12.26	82.82
	11/18/2013	<1.0	<1.0	<1.0	<1.0	10.95	85.13
	12/10/2013	Surveyed - Not Sampled				12.07	84.13
	2/11/2014	<1.0	<1.0	<1.0	<1.0	13.80	82.28



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	5/23/2014	<1.0	<1.0	<1.0	14.4	12.52	83.68
	9/30/2014	3.9	<1.0	<1.0	<1.0	9.91	86.29
	11/25/2014	1.1	<1.0	<1.0	<1.0	9.56	86.64
	2/19/2015	<1.0	<1.0	<1.0	<1.0	13.33	82.87
	5/26/2015	21.2	<1.0	<1.0	<1.0	12.02	84.18
	8/31/2015	<1.0	<1.0	<1.0	<1.0	10.40	85.80
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.82	84.38
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.74	81.46
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.21	81.99
	8/26/2016	<1.00	<1.00	<1.00	<1.00	12.09	84.11
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.42	83.66
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.82	81.26
MW15	1/13/2010	14000	<1.0	4.4	<1.0	NM	NA
	2/25/2010	33	<1.0	<1.0	<1.0	15.52	80.48
	5/13/2010	510	<1.0	33	150	15.04	80.96
	8/30/2010	91	15	2.7	41	11.08	84.92
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.37	83.63
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.05	80.95
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.28	81.72
	8/25/2011	1100	<1.0	16	72	10.46	85.54
	11/29/2011	41	<1.0	<1.0	3.4	11.66	84.34
	2/23/2012	20	<1.0	<1.0	<1.0	14.69	81.31
	5/22/2012	<1.0	<1.0	<1.0	<1.0	13.86	82.14
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.84	82.52
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.08	80.92
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.51	77.49
	5/30/2013	<1.0	<1.0	<1.0	<1.0	15.71	80.29
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.31	82.69
	11/18/2013	167	<1.0	4.3	21	10.98	85.02
	12/10/2013	Surveyed - Not Sampled				11.83	84.04
	2/11/2014	2.6	<1.0	<1.0	<1.0	13.81	82.19
	5/23/2014	171	<1.0	8.5	<1.0	12.30	83.57
	9/30/2014	<1.0	<1.0	<1.0	<1.0	9.56	86.31
	11/25/2014	<1.0	<1.0	<1.0	<1.0	8.89	86.98
	2/19/2015	1.0	<1.0	<1.0	<1.0	13.07	82.80
	5/26/2015	<1.0	<1.0	<1.0	<1.0	11.82	84.05



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/31/2015	27.1	<1.0	26.4	168	10.17	85.70
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.59	84.28
	1/21/2016	1.2	<1.0	<1.0	<1.0	13.67	82.20
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.50	81.37
	3/28/2016	<1.0	<1.0	<1.0	<1.0	14.73	81.14
	5/2/2016	<1.00	<1.00	<1.00	<1.00	13.99	81.88
	8/26/2016	<1.00	<1.00	<1.00	<1.00	11.83	84.04
	9/26/2016	<1.00	<1.00	<1.00	<1.00	---	NA
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.41	83.59
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.98	81.02
MW16	1/13/2010	4.5	<1.0	<1.0	<1.0	NM	NA
	2/25/2010	1.6	<1.0	<1.0	<1.0	15.67	80.62
	5/13/2010	450	24	23	150	15.17	81.12
	8/30/2010	<1.0	<1.0	<1.0	<1.0	11.24	85.05
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.54	83.75
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.15	81.14
	5/25/2011	20	<1.0	<1.0	<1.0	14.39	81.90
	8/25/2011	<1.0	<1.0	<1.0	<1.0	10.65	85.64
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.83	84.46
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.81	81.48
	5/22/2012	<1.0	<1.0	<1.0	<1.0	14.15	82.14
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.67	82.62
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.15	81.14
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.50	77.79
	5/30/2013	38	<1.0	<1.0	<1.0	17.04	79.25
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.47	82.82
	11/18/2013	<1.0	<1.0	<1.0	<1.0	11.10	85.19
	12/10/2013	Surveyed - Not Sampled				11.95	84.20
	2/11/2014	<1.0	<1.0	<1.0	<1.0	13.95	82.34
	5/23/2014	<1.0	<1.0	<1.0	<1.0	12.40	83.75
	9/30/2014	<1.0	<1.0	<1.0	<1.0	9.76	86.39
	11/25/2014	<1.0	<1.0	<1.0	<1.0	8.81	87.34
	2/19/2015	<1.0	<1.0	<1.0	<1.0	13.17	82.98
	5/26/2015	<1.0	<1.0	<1.0	<1.0	11.89	84.26
	8/31/2015	<1.0	<1.0	<1.0	<1.0	9.27	86.88
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.73	84.42



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.64	81.51
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.11	82.04
	8/26/2016	<1.00	<1.00	<1.00	<1.00	11.97	84.18
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.58	83.71
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.96	81.33
MW17	1/21/2010	76	<1.0	<1.0	<1.0	NM	NA
	2/25/2010	1100	<1.0	<1.0	<1.0	15.39	80.41
	5/13/2010	<1.0	<1.0	<1.0	2.2	15.05	80.75
	8/30/2010	<1.0	<1.0	<1.0	<1.0	10.95	84.85
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.29	83.51
	2/24/2011	<1.0	<1.0	<1.0	<1.0	14.99	80.81
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.23	81.57
	8/25/2011	150	<1.0	<1.0	<1.0	10.38	85.42
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.58	84.22
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.58	81.22
	5/22/2012	<1.0	<1.0	<1.0	<1.0	13.83	81.97
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.44	82.36
	11/29/2012	<1.0	<1.0	<1.0	<1.0	15.02	80.78
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.43	77.37
	5/30/2013	<1.0	<1.0	<1.0	<1.0	16.85	78.95
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.27	82.53
	11/18/2013	<1.0	<1.0	<1.0	<1.0	10.94	84.86
	12/10/2013	Surveyed - Not Sampled				11.88	83.89
	2/11/2014	<1.0	<1.0	<1.0	<1.0	13.76	82.03
	5/23/2014	6.3	<1.0	<1.0	<1.0	12.39	83.38
	9/30/2014	<1.0	<1.0	<1.0	<1.0	9.76	86.01
	11/25/2014	<1.0	<1.0	<1.0	<1.0	8.92	86.85
	2/19/2015	1.6	<1.0	<1.0	<1.0	13.16	82.61
	5/26/2015	<1.0	<1.0	<1.0	<1.0	11.93	83.84
	8/31/2015	<1.0	<1.0	<1.0	<1.0	10.25	85.52
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.64	84.13
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.56	81.21
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.07	81.70
	8/26/2016	<1.00	<1.00	<1.00	<1.00	11.88	83.89
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.37	83.43
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.86	80.94



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
MW18	5/4/2010	<1.0	<1.0	<1.0	<1.0	NM	NA
	8/30/2010	<1.0	<1.0	<1.0	<1.0	10.92	84.70
	11/23/2010	<1.0	<1.0	<1.0	<1.0	9.56	86.06
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.25	80.37
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.23	81.39
	8/25/2011	1.7	<1.0	<1.0	<1.0	10.34	85.28
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.48	84.14
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.57	81.05
	5/22/2012	<1.0	<1.0	<1.0	<1.0	13.85	81.77
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.43	82.19
	11/29/2012	<1.0	<1.0	<1.0	<1.0	14.99	80.63
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.43	77.19
	5/30/2013	<1.0	<1.0	<1.0	<1.0	16.85	78.77
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.27	82.35
	8/28/2013	Removed from monitoring				NM	NA
	12/10/2013	Surveyed - Not Sampled				11.86	83.73
MW19	5/5/2010	31	<1.0	<1.0	<1.0	NM	NA
	8/30/2010	<1.0	<1.0	<1.0	<1.0	10.99	84.86
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.32	83.53
	2/24/2011	<1.0	<1.0	<1.0	<1.0	14.99	80.86
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.24	81.61
	8/25/2011	<1.0	<1.0	<1.0	<1.0	10.40	85.45
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.54	84.31
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.62	81.23
	5/22/2012	<1.0	<1.0	<1.0	<1.0	13.81	82.04
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.46	82.39
	11/29/2012	<1.0	<1.0	<1.0	<1.0	14.96	80.89
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.37	77.48
	5/30/2013	<1.0	<1.0	<1.0	<1.0	16.87	78.98
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.29	82.56
	11/18/2013	<1.0	<1.0	<1.0	<1.0	10.95	84.90
	12/10/2013	Not Sampled				11.85	83.94
	2/11/2014	<1.0	<1.0	<1.0	<1.0	13.77	82.08
	5/23/2014	<1.0	<1.0	<1.0	<1.0	12.36	83.43
	9/30/2014	<1.0	<1.0	<1.0	<1.0	9.66	86.13



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	11/25/2014	<1.0	<1.0	<1.0	<1.0	8.54	87.25
	2/19/2015	<1.0	<1.0	<1.0	<1.0	13.09	82.70
	5/26/2015	<1.0	<1.0	<1.0	<1.0	11.87	83.92
	8/31/2015	<1.0	<1.0	<1.0	<1.0	10.21	85.58
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.62	84.17
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.55	81.24
	5/2/2016	<1.00	<1.00	<1.00	<1.00	14.05	81.74
	8/26/2016	<1.00	<1.00	<1.00	<1.00	11.85	83.94
	11/29/2016	<1.00	<1.00	<1.00	<1.00	12.38	83.47
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.75	81.10
MW20	5/5/2010	<1.0	<1.0	<1.0	<1.0	NM	NA
	8/30/2010	<1.0	<1.0	<1.0	<1.0	11.13	NA
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.44	NA
	2/24/2011	<1.0	<1.0	<1.0	<1.0	15.01	NA
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.38	NA
	8/25/2011	<1.0	<1.0	<1.0	<1.0	10.55	NA
MW20 destroyed as of 11/29/2011							
MW20R	5/22/2012	<1.0	<1.0	<1.0	<1.0	13.73	82.00
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.37	82.36
	11/29/2012	<1.0	<1.0	<1.0	<1.0	NM	NA
	2/27/2013	<1.0	<1.0	<1.0	<1.0	18.03	77.70
	5/30/2013	<1.0	<1.0	<1.0	<1.0	16.79	78.94
	8/26/2013	<1.0	<1.0	<1.0	<1.0	13.21	82.52
	11/18/2013	<1.0	<1.0	<1.0	<1.0	10.92	84.81
	12/10/2013	Surveyed - Not Sampled				11.98	83.86
	2/11/2014	<1.0	<1.0	<1.0	<1.0	13.72	82.01
	5/23/2014	<1.0	<1.0	<1.0	<1.0	12.49	83.35
	9/30/2014	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	11/25/2014	<1.0	<1.0	<1.0	<1.0	8.03	87.81
	2/19/2015	<1.0	<1.0	<1.0	<1.0	13.24	82.60
	5/26/2015	<1.0	<1.0	<1.0	<1.0	11.77	84.07
	8/31/2015	<1.0	<1.0	<1.0	<1.0	10.10	85.74
	11/30/2015	<1.0	<1.0	<1.0	<1.0	11.46	84.38
	2/22/2016	<1.0	<1.0	<1.0	<1.0	14.38	81.46
	5/2/2016	<1.00	<1.00	<1.00	<1.00	13.91	81.93



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FRITZLER UPRR 31-31
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/26/2016	<1.00	<1.00	<1.00	<1.00	11.64	84.20
	11/29/2016	<1.00	<1.00	<1.00	1.27	11.98	83.75
	2/1/2017	<1.00	<1.00	<1.00	<1.00	14.32	81.41
MW21	5/7/2010	28	<1.0	<1.0	<1.0	NM	NA
	8/30/2010	<1.0	<1.0	<1.0	<1.0	10.93	81.96
	11/23/2010	<1.0	<1.0	<1.0	<1.0	12.26	80.63
	2/24/2011	<1.0	<1.0	<1.0	<1.0	14.96	77.93
	5/25/2011	<1.0	<1.0	<1.0	<1.0	14.20	78.69
	8/25/2011	Not Found - Not Sampled				Not Found	NA
	11/29/2011	<1.0	<1.0	<1.0	<1.0	11.39	81.40
	2/23/2012	<1.0	<1.0	<1.0	<1.0	14.50	78.29
	5/22/2012	<1.0	<1.0	<1.0	<1.0	13.57	79.22
	8/28/2012	<1.0	<1.0	<1.0	<1.0	13.21	79.58
	11/29/2012	<1.0	<1.0	<1.0	<1.0	14.75	78.04
	2/27/2013	Not Sampled due to snow cover				Not Found	NA
	5/30/2013	<1.0	<1.0	<1.0	<1.0	16.73	78.91
	8/26/2013	<1.0	<1.0	<1.0	<1.0	14.10	81.54
	8/28/2013	Removed from monitoring				NM	NA
	12/10/2013	Surveyed - Not Sampled				11.65	83.89
COGCC Allowable Levels		5	1000	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate

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



February 08, 2017

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Fritzler UPRR 31-31

Project Number - KMG06247/WO#880746

Attached are your analytical results for KMG - Fritzler UPRR 31-31 received by Origins Laboratory, Inc. February 01, 2017. This project is associated with Origins project number X702091-01.

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

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

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

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

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

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



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	X702091-01	Water	February 1, 2017 11:15	02/01/2017 15:45
MW02	X702091-02	Water	February 1, 2017 11:20	02/01/2017 15:45
MW03	X702091-03	Water	February 1, 2017 11:25	02/01/2017 15:45
MW05	X702091-04	Water	February 1, 2017 11:30	02/01/2017 15:45
MW08R	X702091-05	Water	February 1, 2017 11:35	02/01/2017 15:45
MW09	X702091-06	Water	February 1, 2017 11:40	02/01/2017 15:45
MW10R	X702091-07	Water	February 1, 2017 11:45	02/01/2017 15:45
MW11	X702091-08	Water	February 1, 2017 11:50	02/01/2017 15:45
MW12	X702091-09	Water	February 1, 2017 11:55	02/01/2017 15:45
MW14	X702091-10	Water	February 1, 2017 12:00	02/01/2017 15:45
MW15	X702091-11	Water	February 1, 2017 12:05	02/01/2017 15:45
MW16	X702091-12	Water	February 1, 2017 12:10	02/01/2017 15:45
MW17	X702091-13	Water	February 1, 2017 12:15	02/01/2017 15:45
MW19	X702091-14	Water	February 1, 2017 12:20	02/01/2017 15:45

Origins Laboratory, Inc.



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

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: KMG06247/WO#88074637

Project: KMG - Fritzler UPRR 31-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW20R	X702091-15	Water	February 1, 2017 12:25	02/01/2017 15:45

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

ORIGINS
LABORATORY, INC

X702091

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

Client: LT Environmental, Inc. Project Manager: Justin Solomon
Project: KMG - Fritzler UPRR 31-31 Project Number: KMG06247/WO#88074637

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	2/1/17	1115	DS	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C Filter
02-001	MW02	Water	2/1/17	1120	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
03-001	MW03	Water	2/1/17	1125	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
04-001	MW05	Water	2/1/17	1130	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
05-001	MW07	Water	2/1/17	1135	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
06-001	MW08	Water	2/1/17	1135	DS	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
07-001	MW09	Water	2/1/17	1140	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
08-001	MW10	Water	2/1/17	1145	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
09-001	MW11	Water	2/1/17	1150	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
10-001	MW12	Water	2/1/17	1155	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C
11-001	MW14	Water	2/1/17	1200	↓	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R2600C

Temperature on Receipt: 39
Turn Around Time:
Same Day: ☐ 72 hr: ☒
24-hr: ☐ Standard
48-hr: ☐

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

Relinquished By: [Signature] Date / Time: 2/1/17 1545
Received By: [Signature] Date / Time: 2-17 1545

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

ORIGINS
LABORATORY, INC

X702091

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

12-001	MW15	Water	2/1/17	1205	DS	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R260C	Filter
13-001	MW16	Water		1210		12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R260C	
14-001	MW17	Water		1215		12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R260C	
15-001	MW19	Water		1230		12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R260C	
16-001	MW20R	Water		1235		12-40mL Amber VOA Vial - HCL	3	BTEX by EPA R260C	

Temperature on Receipt: 39
Turn Around Time: ☒ 24-hr ☐ 72-hr ☐ Standard
Same Day: ☐ 24-hr ☐ 48-hr

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

Relinquished By: *[Signature]* Date / Time: 2/1/17 1545
Received By: *[Signature]* Date / Time: 2-1-17 1545

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X70209090
X702091

Client: LTE

Client Project ID: KMG-Fritzler

Checklist Completed by: Dale

Shipped Via: 4D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-2-12 1403

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.9 °C 1 / °C 1 / °C (Describe) 1 / °C

Thermometer ID: TCU3

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

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

Reviewed by (Project Manager) [Signature]

2-2-12 1403
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW01
2/1/2017 11:15:00AM

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

Origins Laboratory, Inc.
X702091-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW02
2/1/2017 11:20:00AM

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

Origins Laboratory, Inc.
X702091-02 (Water)

BTEX by EPA 8260C

Benzene	1.37	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	30.9	1.00	"	"	"	"	"	
Xylenes, total	71.0	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW03
2/1/2017 11:25:00AM

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

Origins Laboratory, Inc.
X702091-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121	"	"	"
Surrogate: Toluene-d8	97.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW05
2/1/2017 11:30:00AM

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

Origins Laboratory, Inc.
X702091-04 (Water)

BTEX by EPA 8260C

Benzene	1.66	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	1.51	1.00	"	"	"	"	"	
Xylenes, total	20.9	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW08R
2/1/2017 11:35:00AM

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

Origins Laboratory, Inc.
X702091-05 (Water)

BTEX by EPA 8260C

Benzene	11.4	10.0	ug/L	10	B7B0702	02/07/2017	02/08/2017
Toluene	375	10.0	"	"	"	"	"
Ethylbenzene	24.7	1.00	"	1	"	"	02/07/2017
Xylenes, total	2690	10.0	"	10	"	"	02/08/2017

Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121			"	"	02/07/2017
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW09
2/1/2017 11:40:00AM

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

Origins Laboratory, Inc.
X702091-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/08/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	84-121			"	"	02/07/2017	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW10R
2/1/2017 11:45:00AM

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

Origins Laboratory, Inc.
X702091-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	451	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"
Surrogate: Toluene-d8	98.0 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW11
2/1/2017 11:50:00AM

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

Origins Laboratory, Inc.
X702091-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW12
2/1/2017 11:55:00AM

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

Origins Laboratory, Inc.
X702091-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW14
2/1/2017 12:00:00PM

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

Origins Laboratory, Inc.
X702091-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW15
2/1/2017 12:05:00PM

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

Origins Laboratory, Inc.
X702091-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121	"	"	"
Surrogate: Toluene-d8	97.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW16
2/1/2017 12:10:00PM

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

Origins Laboratory, Inc.
X702091-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW17
2/1/2017 12:15:00PM

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

Origins Laboratory, Inc.
X702091-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	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	"	"	"

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW19
2/1/2017 12:20:00PM

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

Origins Laboratory, Inc.
X702091-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	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	96.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW20R
2/1/2017 12:25:00PM

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

Origins Laboratory, Inc.
X702091-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B0702	02/07/2017	02/07/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B0702 - EPA 5030B (Water)

Blank (B7B0702-BLK1)

Prepared: 02/07/2017 Analyzed: 02/07/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	84-114			

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B0702 - EPA 5030B (Water)										
LCS (B7B0702-BS1)					Prepared: 02/07/2017 Analyzed: 02/07/2017					
Benzene	55.4	1.00	ug/L	50.0		111	73.3-129			
Toluene	55.3	1.00	"	50.0		111	76.2-123			
Ethylbenzene	56.6	1.00	"	50.0		113	73.6-130			
m,p-Xylene	112	2.00	"	100		112	76.1-126			
o-Xylene	56.2	1.00	"	50.0		112	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	84-114			

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B0702 - EPA 5030B (Water)

Matrix Spike (B7B0702-MS1)		Source: X702085-03			Prepared: 02/07/2017 Analyzed: 02/07/2017					
Benzene	46.1	1.00	ug/L	50.0	ND	92.2	74-130			
Toluene	50.5	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	51.0	1.00	"	50.0	ND	102	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	50.8	1.00	"	50.0	ND	102	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.2	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	84-114			

Origins Laboratory, Inc.



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

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B0702 - EPA 5030B (Water)

Matrix Spike Dup (B7B0702-MSD1)		Source: X702085-03			Prepared: 02/07/2017 Analyzed: 02/07/2017					
Benzene	58.0	1.00	ug/L	50.0	ND	116	74-130	22.8	20	QR-02
Toluene	58.5	1.00	"	50.0	ND	117	73-131	14.7	20	
Ethylbenzene	59.7	1.00	"	50.0	ND	119	76-132	15.6	20	
m,p-Xylene	118	2.00	"	100	ND	118	69-139	14.4	20	
o-Xylene	58.7	1.00	"	50.0	ND	117	74-131	14.4	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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.

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.



February 27, 2017

LT Environmental, Inc.

Andy Verbonitz

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Fritzler UPRR 31-31

Project Number - KMG06247/WO#880746

Attached are your analytical results for KMG - Fritzler UPRR 31-31 received by Origins Laboratory, Inc. February 23, 2017. This project is associated with Origins project number X702400-01.

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

Andy Verbonitz

Project Number: KMG06247/WO#88074637

Project: KMG - Fritzler UPRR 31-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW08R	X702400-01	Water	February 23, 2017 13:45	02/23/2017 15:50
MW10R	X702400-02	Water	February 23, 2017 14:00	02/23/2017 15:50

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

Client: LTE
Address: 4600 W. 60th Ave.
Project Manager: Andy Verbonitz
Project Name: Fritzler UPRR 31-31
Project Number: KMG06247
Samples Collected By: R. Verbonitz
Telephone Number: A. Verbonitz@OriginsLab.com
Email Address: A. Verbonitz@OriginsLab.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Continer #	Other		
MW08R	2/23/17	1345	3	X				X					1
MW10R	2/23/17	1400	3	X				X					2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: <u>[Signature]</u>	Date: <u>2/23/17</u>	Time: <u>15:50</u>	Received By: <u>[Signature]</u>	Date: <u>2/23/17</u>	Time: <u>15:50</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <u>[Signature]</u>	Date: <u>2/23/17</u>	Time: <u>15:50</u>	Received By: <u>[Signature]</u>	Date: <u>2/23/17</u>	Time: <u>15:50</u>	

Date Results Needed

Temp Received: 29

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 2762400

Client: LTE

Client Project ID: KMG Fritzler UPRR 31-31

Checklist Completed by: Don Lee

Shipped Via: HD

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

Date/time completed: 7-23-17 1801

Airbill #: NA

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

Cooler Number/Temperature: 1/1 85 °C 22-17 °C 1 °C 1 °C (Describe)

Thermometer ID: T603

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 same Day
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"/>			
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 Don Lee (Project Manager)

2/24/17
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW08R

2/23/2017 1:45:00PM

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

Origins Laboratory, Inc.
X702400-01 (Water)

BTEX by EPA 8260C

Benzene	3.55	1.00	ug/L	1	B7B2403	02/24/2017	02/25/2017	
Toluene	33.2	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	813	4.00	"	4	"	"	02/27/2017	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	02/25/2017	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

MW10R
2/23/2017 2:00:00PM

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

Origins Laboratory, Inc.
X702400-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7B2403	02/24/2017	02/25/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	25.2	1.00	"	"	"	"	"	
Xylenes, total	70.5	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

Blank (B7B2403-BLK1)

Prepared: 02/24/2017 Analyzed: 02/24/2017

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	65		"	62.5	104		84-121			
Surrogate: Toluene-d8	64		"	62.5	103		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.5		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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)										
Blank (B7B2403-BLK2)					Prepared: 02/24/2017 Analyzed: 02/24/2017					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	84-114			

Origins Laboratory, Inc.



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

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

LCS (B7B2403-BS1)

Prepared: 02/24/2017 Analyzed: 02/24/2017

Benzene	51.7	1.00	ug/L	50.0	103	73.3-129
Toluene	51.1	1.00	"	50.0	102	76.2-123
Ethylbenzene	53.2	1.00	"	50.0	106	73.6-130
m,p-Xylene	104	2.00	"	100	104	76.1-126
o-Xylene	51.6	1.00	"	50.0	103	76.6-124
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	103	84-121
Surrogate: Toluene-d8	63		"	62.5	101	85-115
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.2	84-114

Origins Laboratory, Inc.



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

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

LCS (B7B2403-BS2)

Prepared: 02/24/2017 Analyzed: 02/24/2017

Benzene	51.3	1.00	ug/L	50.0		103	73.3-129			
Toluene	50.4	1.00	"	50.0		101	76.2-123			
Ethylbenzene	53.1	1.00	"	50.0		106	73.6-130			
m,p-Xylene	105	2.00	"	100		105	76.1-126			
o-Xylene	51.5	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

Matrix Spike (B7B2403-MS1)		Source: X702349-03			Prepared: 02/24/2017 Analyzed: 02/24/2017					
Benzene	50.6	1.00	ug/L	50.0	ND	101	74-130			
Toluene	50.7	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	52.4	1.00	"	50.0	ND	105	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	50.6	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

Matrix Spike (B7B2403-MS2)		Source: X702349-04			Prepared: 02/24/2017 Analyzed: 02/24/2017					
Benzene	49.2	1.00	ug/L	50.0	ND	98.4	74-130			
Toluene	49.1	1.00	"	50.0	ND	98.3	73-131			
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	50.0	1.00	"	50.0	ND	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

Matrix Spike Dup (B7B2403-MSD1)		Source: X702349-03			Prepared: 02/24/2017 Analyzed: 02/24/2017					
Benzene	51.9	1.00	ug/L	50.0	ND	104	74-130	2.62	20	
Toluene	51.3	1.00	"	50.0	ND	103	73-131	1.06	20	
Ethylbenzene	53.9	1.00	"	50.0	ND	108	76-132	2.75	20	
m,p-Xylene	105	2.00	"	100	ND	105	69-139	2.97	20	
o-Xylene	50.9	1.00	"	50.0	ND	102	74-131	0.631	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

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 B7B2403 - EPA 5030B (Water)

Matrix Spike Dup (B7B2403-MSD2)		Source: X702349-04			Prepared: 02/24/2017 Analyzed: 02/24/2017					
Benzene	47.0	1.00	ug/L	50.0	ND	93.9	74-130	4.66	20	
Toluene	46.2	1.00	"	50.0	ND	92.5	73-131	6.10	20	
Ethylbenzene	49.8	1.00	"	50.0	ND	99.6	76-132	4.77	20	
m,p-Xylene	95.8	2.00	"	100	ND	95.8	69-139	6.51	20	
o-Xylene	48.8	1.00	"	50.0	ND	97.6	74-131	2.39	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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

Andy Verbonitz
Project Number: KMG06247/WO#88074637
Project: KMG - Fritzler UPRR 31-31

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.

Jen Pellegrini For Noelle Doyle Mathis, President