

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
GW01	2/4/2010	3400	32	1200	7600	4.5	NA
MW01	6/8/2010	4.2	<1.0	4.4	22	4.02	95.98
	9/3/2010	<1.0	<1.0	<1.0	<1.0	4.32	95.68
	12/6/2010	<1.0	<1.0	<1.0	<1.0	4.50	95.50
	3/1/2011	<1.0	<1.0	<1.0	<1.0	5.71	94.29
	6/21/2011	<1.0	<1.0	5.6	13	3.29	96.71
	9/13/2011	<1.0	<1.0	<1.0	<1.0	2.78	97.22
	12/20/2011	<1.0	<1.0	<1.0	<1.0	3.01	96.99
	3/13/2012	<1.0	<1.0	<1.0	<1.0	4.58	95.42
	6/13/2012	<1.0	<1.0	<1.0	<1.0	4.52	95.48
	9/21/2012	<1.0	<1.0	<1.0	<1.0	3.24	96.76
	12/17/2012	<1.0	<1.0	<1.0	<1.0	3.40	96.60
	3/13/2013	<1.0	<1.0	<1.0	<1.0	3.97	96.03
	6/25/2013	<1.0	<1.0	<1.0	<1.0	3.33	96.67
	9/18/2013	<1.0	<1.0	<1.0	<1.0	0.75	99.25
	11/13/2013	Surveyed - Not Sampled				1.94	97.44
	12/23/2013	<4.0	<4.0	<4.0	<4.0	3.56	96.44
	3/6/2014	<1.0	<1.0	<1.0	<1.0	4.31	95.41
	6/3/2014	<1.0	<1.0	<1.0	<1.0	3.73	96.58
	9/18/2014	<1.0	<1.0	<1.0	<1.0	4.18	96.13
	12/2/2014	<1.0	<1.0	<1.0	<3.0	4.66	95.65
	3/3/2015	<1.0	<1.0	<1.0	<1.0	5.46	94.85
	6/5/2015	<1.0	<1.0	<1.0	<1.0	1.53	98.78
	9/3/2015	<1.0	<1.0	<1.0	<1.0	2.62	97.69
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.48	96.83
	3/9/2016	Surveyed - Not Sampled				3.73	96.28
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.52	96.49
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.20	96.81
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.06	95.95
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.32	95.99
	3/17/2017	<1.00	<1.00	<1.00	<1.00	5.67	94.64
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.45	96.86
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.67	96.64
	12/20/2017	<1.00	<1.00	<1.00	<1.00	3.82	96.49



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KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.44	94.87
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.33	96.98
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.90	96.41
	12/18/2018	<1.00	<1.00	<1.00	<1.00	4.92	95.39
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.11	95.20
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.61	94.70
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.32	94.99
	12/6/2019	<4.00	<4.00	<4.00	<4.00	6.17	94.14
MW02	6/8/2010	<1.0	<1.0	<1.0	<1.0	4.69	94.78
	9/3/2010	<1.0	<1.0	<1.0	<1.0	4.93	94.54
	12/6/2010	<1.0	<1.0	<1.0	<1.0	5.13	94.34
	3/1/2011	<1.0	<1.0	<1.0	<1.0	6.41	93.06
	6/21/2011	<1.0	<1.0	<1.0	<1.0	3.78	95.69
	9/13/2011	<1.0	<1.0	<1.0	<1.0	3.43	96.04
	12/20/2011	<1.0	<1.0	<1.0	<1.0	3.60	95.87
	3/13/2012	<1.0	<1.0	<1.0	<1.0	5.02	94.45
	6/13/2012	<1.0	<1.0	<1.0	<1.0	4.49	94.98
	9/21/2012	<1.0	<1.0	<1.0	<1.0	3.99	95.48
	12/17/2012	<1.0	<1.0	<1.0	<1.0	4.14	95.33
	3/13/2013	<1.0	<1.0	<1.0	<1.0	4.79	94.68
	6/25/2013	<1.0	<1.0	<1.0	<1.0	4.24	95.23
	9/18/2013	<1.0	<1.0	<1.0	<1.0	1.34	98.13
	11/13/2013	Surveyed - Not Sampled				3.16	96.36
	12/23/2013	<4.0	<4.0	<4.0	<4.0	4.19	95.28
	3/6/2014	<1.0	<1.0	<1.0	<1.0	5.16	94.31
	6/3/2014	<1.0	<1.0	<1.0	<1.0	4.09	95.43
	9/18/2014	<1.0	<1.0	<1.0	<1.0	4.51	95.01
	12/2/2014	<1.0	<1.0	<1.0	<3.0	5.02	94.50
	3/3/2015	<1.0	<1.0	<1.0	<1.0	5.91	93.61
	6/5/2015	<1.0	<1.0	<1.0	<1.0	1.63	97.89
	9/3/2015	<1.0	<1.0	<1.0	<1.0	4.84	94.82
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.76	95.90
	3/9/2016	Surveyed - Not Sampled				4.37	95.21
	3/30/2016	<1.0	<1.0	<1.0	<1.0	4.08	95.50



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KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.68	95.90
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.38	95.20
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.45	95.21
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.05	93.61
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.55	96.11
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.68	95.98
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.14	95.52
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.80	93.86
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.69	95.97
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.90	95.76
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.23	94.43
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.53	94.13
	6/24/2019	<1.00	<1.00	<1.00	<1.00	6.09	93.57
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.60	94.06
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.58	93.08
MW03	6/8/2010	1.7	<1.0	<1.0	<1.0	4.83	94.42
	9/3/2010	<1.0	<1.0	<1.0	<1.0	5.08	94.17
	12/6/2010	<1.0	<1.0	<1.0	<1.0	5.34	93.91
	3/1/2011	1.3	<1.0	<1.0	<1.0	6.55	92.70
	6/21/2011	<1.0	<1.0	<1.0	<1.0	4.19	95.06
	9/13/2011	<1.0	<1.0	<1.0	<1.0	3.68	95.57
	12/20/2011	<1.0	<1.0	<1.0	<1.0	3.94	95.31
	3/13/2012	<1.0	<1.0	<1.0	<1.0	5.27	93.98
	6/13/2012	<1.0	<1.0	<1.0	<1.0	5.15	94.10
	9/21/2012	<1.0	<1.0	<1.0	<1.0	4.25	95.00
	12/17/2012	<1.0	<1.0	<1.0	<1.0	4.36	94.89
	3/13/2013	<1.0	<1.0	<1.0	<1.0	4.96	94.26
	6/25/2013	<1.0	<1.0	<1.0	<1.0	4.34	94.91
	9/18/2013	<1.0	<1.0	<1.0	<1.0	1.66	97.59
	11/13/2013	Surveyed - Not Sampled				3.34	95.96
	12/23/2013	<4.0	<4.0	<4.0	<4.0	4.31	94.94
	3/6/2014	<1.0	<1.0	<1.0	<1.0	5.40	93.85
	6/3/2014	102	<1.0	2.0	14.4	4.29	95.01
	9/18/2014	<1.0	<1.0	<1.0	<1.0	4.62	94.68



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/2/2014	<1.0	<1.0	<1.0	<3.0	5.09	94.21
	3/3/2015	2.9	<1.0	<1.0	<1.0	6.06	93.24
	6/5/2015	<1.0	<1.0	<1.0	<1.0	2.03	97.27
	9/3/2015	<1.0	<1.0	<1.0	<1.0	5.24	94.20
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.97	95.47
	3/9/2016	Surveyed - Not Sampled				4.53	94.92
	3/30/2016	<1.0	<1.0	<1.0	<1.0	4.32	95.13
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.92	95.53
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.67	94.78
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.68	94.76
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.26	93.18
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.88	95.56
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.04	95.40
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.29	95.15
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.91	93.53
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.93	95.51
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.09	95.35
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.38	94.06
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.58	93.86
	6/24/2019	<1.00	<1.00	<1.00	<1.00	6.12	93.32
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.74	93.70
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.63	92.81
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MW04	6/8/2010	840	<1.0	260	2900	4.38	95.24
	9/3/2010	200	<1.0	71	200	4.51	95.11
	12/6/2010	86	<1.0	3.5	85	4.74	94.88
	3/1/2011	11	<1.0	<1.0	19	5.98	93.64
	6/21/2011	1400	<1.0	400	4300	3.73	95.89
	9/13/2011	2300	<1.0	280	6000	3.20	96.42
	12/20/2011	2100	<1.0	330	5100	3.33	96.29
	3/13/2012	160	<1.0	230	1600	4.70	94.92
	6/13/2012	3100	<1.0	260	4500	4.58	95.04
	9/21/2012	480	<1.0	100	180	3.70	95.92
	12/17/2012	2000	<1.0	120	230	4.36	95.72
	3/13/2013	690	<1.0	66	210	4.28	95.34



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/25/2013	21	<1.0	1.8	6.6	3.62	96.00
	9/18/2013	720	<1.0	140	210	1.25	98.37
	11/13/2013	Surveyed - Not Sampled				2.86	96.89
	12/23/2013	171	<4.0	18.8	34.9	4.16	95.46
	3/6/2014	39.4	<1.0	1.1	<1.0	4.76	94.86
	6/3/2014	227	<1.0	32.7	93.6	3.77	95.98
	9/18/2014	135	<4.0	<4.0	<4.0	4.08	95.67
	12/2/2014	90.9	<1.0	<1.0	<1.0	4.51	95.24
	3/3/2015	11.3	<1.0	<1.0	<1.0	5.50	94.25
	6/5/2015	1600	<1.0	186	299	PVC Blocked	NA
	9/3/2015	796	<20.0	59.0	<20.0	PVC Blocked	NA
	12/9/2015	Dry - Not Sampled				Dry	NA
	3/9/2016	Surveyed - Not Sampled				PVC Blocked	NA
	3/30/2016	Not Sampled				PVC Blocked	NA
	4/19/2016	15.8	<4.0	6.1	5.8	NM	NA
	6/27/2016	4.28	<1.00	<1.00	<1.00	3.79	96.15
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.54	95.40
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.74	95.34
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.30	93.78
	6/19/2017	1.90	<1.00	<1.00	<1.00	4.03	96.05
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.18	95.90
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.23	95.85
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.91	94.17
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.69	96.39
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.89	96.19
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.33	94.75
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.54	94.54
	6/24/2019	<1.00	<1.00	<1.00	<1.00	6.02	94.06
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.74	94.34
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.55	93.53
MW05	4/26/2011	36	<1.0	3.5	41	5.27	95.05
	6/21/2011	1500	<1.0	200	1800	3.39	97.03
	9/13/2011	2900	<1.0	180	3200	3.29	97.13
	12/20/2011	2100	<1.0	120	2500	3.58	96.84



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COGCC Allowable Levels		5	560	700	1400		
	3/13/2012	610	<1.0	170	690	4.75	95.67
	6/13/2012	3900	<1.0	250	3500	4.68	95.74
	9/21/2012	1900	<1.0	150	500	3.77	96.65
	12/17/2012	1500	<1.0	130	1100	3.82	96.60
	3/13/2013	1400	<1.0	56	480	4.44	95.98
	6/25/2013	16	<1.0	1.1	5.6	3.80	96.62
	9/18/2013	1800	<1.0	32	1300	1.30	99.02
	11/13/2013	Surveyed - Not Sampled				2.87	97.57
	12/23/2013	167	<4.0	17.1	93.6	3.86	96.56
	3/6/2014	5.5	<1.0	1.5	11.9	4.86	95.56
	6/3/2014	187	<1.0	12.6	117	3.74	96.70
	9/18/2014	62.0	<4.0	<4.0	8.8	4.04	96.40
	12/2/2014	57.7	<1.0	6.8	22.3	4.47	95.97
	3/3/2015	<1.0	<1.0	<1.0	<1.0	5.48	94.96
	6/5/2015	758	<1.0	16.8	32.9	1.74	98.70
	9/3/2015	685	<4.0	17.6	81.4	2.68	97.76
	12/9/2015	15.3	<4.0	<4.0	19.7	3.44	97.00
	3/9/2016	Surveyed - Not Sampled				4.03	96.46
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.66	96.83
	6/27/2016	48.9	<1.00	2.89	23.3	3.56	96.93
	9/29/2016	2.30	<1.00	2.21	<1.00	4.21	96.28
	12/21/2016	4.75	<1.00	3.58	2.99	4.24	96.20
	3/17/2017	<1.00	<1.00	<1.00	<1.00	5.72	94.72
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.53	96.91
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.65	96.79
	12/20/2017	<1.00	<1.00	<1.00	<1.00	3.73	96.71
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.37	95.07
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.14	97.30
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.35	97.09
	12/18/2018	<1.00	<1.00	<1.00	<1.00	4.75	95.69
	3/26/2019	<1.00	<1.00	<1.00	<1.00	4.96	95.48
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.42	95.02
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.41	95.03
	12/6/2019	<1.00	<1.00	<1.00	<1.00	5.91	94.53



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
MW06	4/26/2011	<1.0	<1.0	<1.0	<1.0	6.16	93.52
	6/21/2011	<1.0	<1.0	<1.0	<1.0	4.18	95.34
	9/13/2011	<1.0	<1.0	<1.0	<1.0	3.60	95.92
	12/20/2011	<1.0	<1.0	<1.0	<1.0	3.84	95.68
	3/13/2012	<1.0	<1.0	<1.0	<1.0	5.12	94.40
	6/13/2012	<1.0	<1.0	<1.0	<1.0	5.05	94.47
	9/21/2012	<1.0	<1.0	<1.0	<1.0	4.15	95.37
	12/17/2012	<1.0	<1.0	<1.0	<1.0	4.30	95.22
	3/13/2013	<1.0	<1.0	<1.0	<1.0	4.75	94.77
	6/25/2013	<1.0	<1.0	<1.0	<1.0	4.18	95.34
	9/18/2013	<1.0	<1.0	<1.0	<1.0	1.80	97.82
	11/13/2013	Surveyed - Not Sampled				3.41	96.43
	12/23/2013	<4.0	<4.0	<4.0	<4.0	4.10	95.42
	3/6/2014	<1.0	<1.0	<1.0	<1.0	5.18	94.34
	6/3/2014	<1.0	<1.0	<1.0	<1.0	4.35	95.49
	9/18/2014	<1.0	<1.0	<1.0	<1.0	4.61	95.23
	12/2/2014	<1.0	<1.0	<1.0	<1.0	5.09	94.75
	3/3/2015	<1.0	<1.0	<1.0	<1.0	6.10	93.74
	6/5/2015	<1.0	<1.0	<1.0	<1.0	2.37	97.47
	9/3/2015	<1.0	<1.0	<1.0	<1.0	3.37	96.57
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.98	95.96
	3/9/2016	Surveyed - Not Sampled				4.00	95.49
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.83	95.66
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.49	96.00
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.23	95.26
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.78	95.15
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.31	93.62
	6/19/2017	<1.00	<1.00	<1.00	<1.00	4.07	95.86
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.20	95.73
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.28	95.65
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.93	94.00
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.61	96.32
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.85	96.08
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.32	94.61
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.50	94.43



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/24/2019	<1.00	<1.00	<1.00	<1.00	6.06	93.87
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.80	94.13
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.60	93.33
MW07	12/20/2011	<1.0	<1.0	<1.0	<1.0	3.43	97.63
	3/13/2012	<1.0	<1.0	<1.0	<1.0	4.78	96.27
	6/13/2012	<1.0	<1.0	<1.0	<1.0	4.74	96.31
	9/21/2012	<1.0	<1.0	<1.0	<1.0	3.78	97.27
	12/17/2012	<1.0	<1.0	<1.0	<1.0	3.89	97.16
	3/13/2013	<1.0	<1.0	<1.0	<1.0	4.43	96.62
	6/25/2013	<1.0	<1.0	<1.0	<1.0	3.84	97.21
	9/18/2013	<1.0	<1.0	<1.0	<1.0	1.43	99.62
	11/13/2013	Surveyed - Not Sampled				3.02	98.12
	12/23/2013	<4.0	<4.0	<4.0	<4.0	3.94	97.11
	3/6/2014	<1.0	<1.0	<1.0	<1.0	4.91	96.14
	6/3/2014	<1.0	<1.0	<1.0	<1.0	3.84	97.30
	9/18/2014	<1.0	<1.0	<1.0	<1.0	4.20	96.94
	12/2/2014	<1.0	<1.0	<1.0	<1.0	4.57	96.57
	3/3/2015	<1.0	<1.0	<1.0	<1.0	5.52	95.62
	6/5/2015	<1.0	<1.0	<1.0	<1.0	1.87	99.27
	9/3/2015	<1.0	<1.0	<1.0	<1.0	2.93	98.21
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.53	97.61
	3/9/2016	Surveyed - Not Sampled				2.51	97.09
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.74	97.36
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.54	97.56
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.33	96.77
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.37	96.77
	3/17/2017	<1.00	<1.00	<1.00	<1.00	5.85	95.29
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.64	97.50
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.78	97.36
	12/20/2017	<1.00	<1.00	<1.00	<1.00	3.80	97.34
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.41	95.73
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.25	97.89
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.42	97.72
	12/18/2018	<1.00	<1.00	<1.00	<1.00	4.85	96.29



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.02	96.12
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.47	95.67
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.34	95.80
	12/6/2019	<1.00	<1.00	<1.00	<1.00	5.99	95.15
MW08	12/20/2011	<1.0	<1.0	<1.0	<1.0	3.94	96.71
	3/13/2012	<1.0	<1.0	<1.0	<1.0	5.29	95.36
	6/13/2012	<1.0	<1.0	<1.0	<1.0	5.21	95.44
	9/21/2012	<1.0	<1.0	<1.0	<1.0	4.29	96.36
	12/17/2012	<1.0	<1.0	<1.0	<1.0	4.38	96.27
	3/13/2013	<1.0	<1.0	<1.0	<1.0	4.98	95.67
	6/25/2013	<1.0	<1.0	<1.0	<1.0	4.36	96.29
	9/18/2013	<1.0	<1.0	<1.0	<1.0	2.01	98.69
	11/13/2013	Surveyed - Not Sampled				3.37	97.29
	12/23/2013	<4.0	<4.0	<4.0	<4.0	3.37	97.28
	3/6/2014	<1.0	<1.0	<1.0	<1.0	5.37	95.28
	6/3/2014	<1.0	<1.0	<1.0	<1.0	4.28	96.38
	9/18/2014	<1.0	<1.0	<1.0	<1.0	4.57	96.09
	12/2/2014	<1.0	<1.0	<1.0	<1.0	4.96	95.70
	3/3/2015	<1.0	<1.0	<1.0	<1.0	5.96	94.70
	6/5/2015	<1.0	<1.0	<1.0	<1.0	2.24	98.42
	9/3/2015	<1.0	<1.0	<1.0	<1.0	3.30	97.34
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.90	96.74
	3/9/2016	Surveyed - Not Sampled				4.61	96.09
	3/30/2016	<1.0	<1.0	<1.0	<1.0	4.22	96.48
	6/27/2016	<1.00	<1.00	<1.00	<1.00	4.00	96.70
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.79	95.91
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.72	95.92
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.24	94.40
	6/19/2017	<1.00	<1.00	<1.00	<1.00	4.07	96.57
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.18	96.46
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.19	96.45
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.93	94.71
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.60	97.04
	9/17/2018	<1.00	<1.00	<1.00	<1.00	3.81	96.83



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.27	95.37
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.48	95.16
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.88	94.76
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.68	94.96
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.46	94.18
MW09	12/20/2011	44	<1.0	<1.0	<1.0	4.04	95.27
	3/13/2012	280	<1.0	9.8	73	5.37	93.94
	6/13/2012	81	<1.0	<1.0	<1.0	5.31	94.00
	9/21/2012	1.3	<1.0	<1.0	<1.0	4.37	94.94
	12/17/2012	200	<1.0	3.0	<1.0	4.48	94.83
	3/13/2013	56	<1.0	2.8	11	4.95	94.36
	6/25/2013	150	<1.0	<1.0	<1.0	4.31	95.00
	9/18/2013	<1.0	<1.0	<1.0	<1.0	1.99	97.30
	11/13/2013	Surveyed - Not Sampled				3.47	95.93
	12/23/2013	<4.0	<4.0	<4.0	<4.0	4.40	94.91
	3/6/2014	33.6	<1.0	<1.0	<1.0	5.48	93.83
	6/3/2014	<1.0	<1.0	<1.0	<1.0	4.45	94.95
	9/18/2014	Inaccessible - Not Sampled				NM	NA
	12/2/2014	1.7	<1.0	<1.0	<1.0	5.13	94.27
	3/3/2015	3.1	<1.0	<1.0	<1.0	6.18	93.22
	6/5/2015	2.9	<1.0	<1.0	<1.0	2.31	97.09
	9/3/2015	Inaccessible - Not Sampled				Inaccessible	NA
	12/9/2015	3.9	<1.0	<1.0	<1.0	4.06	95.35
	3/9/2016	Surveyed - Not Sampled				4.64	94.85
	3/30/2016	<1.0	<1.0	<1.0	<1.0	4.47	95.02
	6/27/2016	<1.00	<1.00	<1.00	<1.00	4.10	95.39
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.85	94.64
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.88	94.53
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.43	92.98
	6/19/2017	<1.00	<1.00	<1.00	<1.00	4.17	95.24
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.33	95.08
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.40	95.01
	3/29/2018	<1.00	<1.00	<1.00	<1.00	6.09	93.32
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.97	95.44

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.16	95.25
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.44	93.97
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.64	93.77
	6/24/2019	<4.00	<4.00	<4.00	<4.00	6.22	93.19
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.89	93.52
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.75	92.66
MW10	4/26/2012	190	15	240	7900	3.20	98.17
	6/13/2012	12	<1.0	59	2500	4.50	96.87
	9/21/2012	48	1.4	120	750	3.91	97.46
	12/17/2012	25	<1.0	62	730	3.90	97.47
	3/13/2013	54	1.4	89	1100	4.25	97.12
	6/25/2013	9.6	<1.0	53	600	3.70	97.67
	9/18/2013	31	<1.0	67	870	0.45	100.92
	11/13/2013	Surveyed - Not Sampled				2.39	98.22
	12/23/2013	5.9	<4.0	7.4	85.8	4.10	97.27
	3/6/2014	1.7	<1.0	5.4	88.1	4.77	96.29
	6/3/2014	7.9	<1.0	16.8	284	4.39	97.36
	9/18/2014	20.2	<1.0	35.1	241	4.78	96.97
	12/2/2014	14.7	<1.0	3.7	21.6	5.19	96.56
	3/3/2015	9.4	<1.0	6.2	100	6.02	95.73
	6/5/2015	7.6	<1.0	3.0	14.2	2.44	99.31
	9/3/2015	9.3	<1.0	<1.0	278	3.29	98.49
	12/9/2015	6.4	<1.0	7.2	75.2	4.20	97.58
	3/9/2016	Surveyed - Not Sampled				5.02	96.79
	3/30/2016	65.4	<1.0	<1.0	175	4.56	97.25
	6/27/2016	7.24	<1.00	61.8	1,230	4.37	97.44
	9/29/2016	<1.00	<1.00	3.10	58.2	5.11	96.70
	12/21/2016	<1.00	<1.00	5.82	65.6	4.93	96.85
	3/17/2017	1.33	<1.00	<1.00	7.47	6.27	95.51
	6/19/2017	3.06	<1.00	1.14	<1.00	4.20	97.58
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.34	97.44
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.34	97.44
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.83	95.95
	6/25/2018	<1.00	<1.00	1.04	8.40	3.74	98.04



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.49	97.29
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.47	96.31
	3/26/2019	<1.00	<1.00	<1.00	120	5.68	96.10
	6/24/2019	<1.00	<1.00	<1.00	14.0	6.13	95.65
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.97	95.81
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.29	95.49
MW11	4/26/2012	<1.0	<1.0	<1.0	3.1	5.85	93.94
	6/13/2012	<1.0	<1.0	<1.0	<1.0	5.52	94.19
	9/21/2012	<1.0	<1.0	<1.0	<1.0	5.32	94.39
	12/17/2012	<1.0	<1.0	<1.0	<1.0	5.42	94.29
	3/13/2013	<1.0	<1.0	<1.0	<1.0	5.25	94.46
	6/25/2013	<1.0	<1.0	<1.0	<1.0	4.62	95.09
	9/18/2013	<1.0	<1.0	<1.0	<1.0	2.97	96.74
	11/13/2013	Surveyed - Not Sampled				4.23	95.45
	12/23/2013	<4.0	<4.0	<4.0	<4.0	5.23	94.48
	3/6/2014	<1.0	<1.0	<1.0	<1.0	6.40	93.31
	6/3/2014	<1.0	<1.0	<1.0	<1.0	5.22	94.46
	9/18/2014	<1.0	<1.0	<1.0	<1.0	5.40	94.28
	12/2/2014	<1.0	<1.0	<1.0	<1.0	5.88	93.80
	3/3/2015	<1.0	<1.0	<1.0	<1.0	6.98	92.70
	6/5/2015	<1.0	<1.0	<1.0	<1.0	3.24	96.44
	9/3/2015	<1.0	<1.0	<1.0	<1.0	6.32	93.54
	12/9/2015	<1.0	<1.0	<1.0	<1.0	4.80	95.06
	3/9/2016	Surveyed - Not Sampled				5.32	94.54
	3/30/2016	<1.0	<1.0	<1.0	<1.0	5.21	94.65
	6/27/2016	<1.00	<1.00	<1.00	<1.00	4.76	95.10
	9/29/2016	<1.00	<1.00	<1.00	<1.00	5.50	94.36
	12/21/2016	<1.00	<1.00	<1.00	<1.00	5.65	94.21
	3/17/2017	<1.00	<1.00	<1.00	<1.00	7.16	92.70
	6/19/2017	<1.00	<1.00	<1.00	<1.00	4.96	94.90
	9/26/2017	<1.00	<1.00	<1.00	<1.00	5.04	94.82
	12/20/2017	<1.00	<1.00	<1.00	<1.00	5.21	94.65
	3/29/2018	<1.00	<1.00	<1.00	<1.00	6.86	93.00
	6/25/2018	<1.00	<1.00	<1.00	<1.00	5.09	94.77



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.99	94.87
	12/18/2018	<1.00	<1.00	<1.00	<1.00	6.22	93.64
	3/26/2019	<1.00	<1.00	<1.00	<1.00	6.41	93.45
	6/24/2019	<1.00	<1.00	<1.00	<1.00	6.98	92.88
	9/16/2019	<1.00	<1.00	<1.00	<1.00	6.67	93.19
	12/6/2019	<1.00	<1.00	<1.00	<1.00	7.60	92.26
MW12	4/26/2012	13	<1.0	<1.0	<1.0	5.44	NA
	6/13/2012	3.2	<1.0	<1.0	<1.0	5.15	NA
	9/21/2012	<1.0	<1.0	<1.0	<1.0	5.03	NA
	12/17/2012	<1.0	<1.0	<1.0	<1.0	5.10	NA
	3/13/2013	<1.0	<1.0	<1.0	<1.0	5.75	NA
	6/25/2013	2.7	<1.0	<1.0	<1.0	5.20	NA
	9/18/2013	Damaged - Not Sampled				NM	NA
	MW12 destroyed as of 9/18/2013						
MW12R	12/23/2013	<4.0	<4.0	<4.0	<4.0	4.99	NA
	3/6/2014	9.2	<1.0	<1.0	<1.0	6.10	NA
	6/3/2014	2.9	<1.0	<1.0	<1.0	7.63	NA
	9/18/2014	<1.0	<1.0	<1.0	<1.0	5.33	NA
	12/2/2014	<1.0	<1.0	<1.0	<1.0	5.73	NA
	3/3/2015	<1.0	<1.0	<1.0	<1.0	6.79	NA
	6/5/2015	<1.0	<1.0	<1.0	<1.0	2.92	NA
	9/3/2015	<1.0	<1.0	<1.0	<1.0	8.76	92.96
	12/9/2015	<1.0	<1.0	<1.0	<1.0	7.38	94.34
	3/9/2016	Surveyed - Not Sampled				5.46	93.69
	3/30/2016	<1.0	<1.0	<1.0	<1.0	5.11	94.04
	6/27/2016	9.21	<1.00	<1.00	<1.00	4.68	94.47
	7/25/2016	<1.00	<1.00	<1.00	<1.00	NM	NA
	9/29/2016	<1.00	<1.00	<1.00	<1.00	5.34	93.81
	12/21/2016	<1.00	<1.00	<1.00	<1.00	5.37	93.70
	3/17/2017	<1.00	<1.00	<1.00	<1.00	6.98	92.09
	6/19/2017	<1.00	<1.00	<1.00	<1.00	4.71	94.36
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.79	94.28
	12/20/2017	<1.00	<1.00	<1.00	<1.00	4.99	94.08



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/29/2018	<1.00	<1.00	<1.00	<1.00	6.71	92.36
	6/25/2018	<1.00	<1.00	<1.00	<1.00	4.85	94.22
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.81	94.26
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.99	93.08
	3/26/2019	<1.00	<1.00	<1.00	<1.00	4.33	NA
	6/24/2019	<1.00	<1.00	<1.00	<1.00	4.21	NA
	8/28/2019	Surveyed - Not Sampled				6.63	92.66
	9/16/2019	<1.00	<1.00	<1.00	<1.00	3.84	92.55
	12/6/2019	<1.00	<1.00	<1.00	<1.00	4.81	91.58
MW13	3/13/2013	820	<1.0	150	3000	4.08	97.59
	6/25/2013	350	1.5	38	440	3.77	97.90
	9/18/2013	4500	2.2	<1.0	7000	0.30	101.37
	11/13/2013	Surveyed - Not Sampled				1.49	98.88
	12/23/2013	94.7	<4.0	33.8	384	3.75	97.92
	3/6/2014	70.8	<1.0	28.6	300	4.09	96.94
	6/3/2014	542	<1.0	44.5	441	4.24	98.08
	9/18/2014	578	<4.0	60.6	724	4.65	97.67
	12/2/2014	133	<1.0	30.8	110	5.01	97.31
	3/3/2015	28.4	<1.0	1.3	27.4	5.90	96.42
	6/5/2015	2270	<10.0	139	1920	2.35	99.97
	9/3/2015	427	<20.0	<20.0	108	3.24	99.10
	12/9/2015	773	<4.0	88.8	118	4.01	98.33
	3/9/2016	Surveyed - Not Sampled				3.47	98.26
	3/30/2016	92.1	<4.0	<4.0	10.5	3.70	98.03
	6/27/2016	158	<1.00	85.6	206	3.55	98.18
	9/29/2016	22.7	<1.00	7.13	<1.00	4.32	97.41
	12/21/2016	25.0	<1.00	15.0	8.48	4.86	97.48
	3/17/2017	1.06	<1.00	<1.00	52.9	6.23	96.11
	6/19/2017	69.2	<1.00	1.61	<1.00	4.15	98.19
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.26	98.08
	12/20/2017	5.42	<1.00	<1.00	<1.00	4.33	98.01
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.75	96.59



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.93	98.41
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.53	97.81
	12/18/2018	<1.00	<1.00	<1.00	<1.00	5.38	96.96
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.56	96.78
	6/24/2019	<1.00	<1.00	<1.00	<1.00	6.01	96.33
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.88	96.46
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.17	96.17
MW14	12/23/2013	<4.0	<4.0	<4.0	<4.0	3.65	NA
	3/6/2014	<1.0	<1.0	<1.0	<1.0	4.58	NA
	6/3/2014	<1.0	<1.0	<1.0	<1.0	3.46	NA
	9/18/2014	<1.0	<1.0	<1.0	<1.0	3.79	NA
	12/2/2014	<1.0	<1.0	<1.0	<1.0	4.13	NA
	3/3/2015	<1.0	<1.0	<1.0	<1.0	5.07	NA
	6/5/2015	<1.0	<1.0	<1.0	<1.0	1.60	NA
	9/3/2015	<1.0	<1.0	<1.0	<1.0	5.56	99.40
	12/9/2015	<1.0	<1.0	<1.0	<1.0	6.28	98.68
	3/9/2016	Surveyed - Not Sampled				3.85	98.03
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.28	98.60
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.38	98.50
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.02	97.86
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.05	97.86
	3/17/2017	<1.00	<1.00	<1.00	<1.00	5.55	96.36
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.33	98.58
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.44	98.47
	12/20/2017	<1.00	<1.00	<1.00	<1.00	3.41	98.50
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.01	96.90
	6/25/2018	<1.00	<1.00	<1.00	<1.00	2.77	99.14
	9/17/2018	<1.00	<1.00	<1.00	<1.00	2.92	98.99
	12/18/2018	<1.00	<1.00	<1.00	<1.00	4.52	97.39
	3/26/2019	<1.00	<1.00	<1.00	<1.00	4.71	97.20
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.01	96.90



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.00	96.91
	12/6/2019	<1.00	<1.00	<1.00	<1.00	5.52	96.39
MW15	12/2/2014	98.9	<1.0	83.6	112	4.33	97.90
	3/3/2015	23.7	<1.0	23.0	249	5.21	97.02
	6/5/2015	215	<4.0	59.6	980	1.62	100.61
	9/3/2015	183	<4.0	5.4	63.4	2.60	99.63
	12/9/2015	87.3	<4.0	10.0	34.6	3.28	98.95
	3/9/2016	Surveyed - Not Sampled				3.83	98.41
	3/30/2016	4.1	<1.0	<1.0	<1.0	3.41	98.83
	6/27/2016	98.0	<1.00	6.72	21.4	3.47	98.77
	9/29/2016	106	<1.00	17.5	13.8	4.21	98.03
	12/21/2016	80.0	<1.00	19.6	<1.00	4.58	98.05
	3/17/2017	73.7	<1.00	14.6	56.4	5.93	96.70
	6/19/2017	6.31	<1.00	2.84	5.43	3.82	98.81
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.95	98.68
	12/20/2017	8.25	<1.00	<1.00	<1.00	3.93	98.70
	3/29/2018	13.6	<1.00	2.64	130	5.47	97.16
	6/25/2018	10.7	<1.00	<1.00	7.76	3.52	99.11
	9/17/2018	50.5	<1.00	1.63	<1.00	4.27	98.36
	12/18/2018	13.3	<1.00	2.19	<1.00	5.03	97.60
	3/26/2019	16.5	<1.00	<1.00	132	5.19	97.44
	6/24/2019	10.7	<1.00	<1.00	8.48	6.71	95.92
	9/16/2019	1.86	<1.00	<1.00	<1.00	5.69	96.94
	12/6/2019	5.24	<1.00	<1.00	<1.00	6.15	96.48
MW16	12/2/2014	<1.0	<1.0	<1.0	<1.0	6.41	97.08
	3/3/2015	<1.0	<1.0	<1.0	<1.0	7.30	96.19
	6/5/2015	<1.0	<1.0	<1.0	<1.0	3.79	99.70
	9/3/2015	<1.0	<1.0	<1.0	<1.0	2.48	101.01
	12/9/2015	<1.0	<1.0	<1.0	<1.0	3.46	100.03
	3/9/2016	Surveyed - Not Sampled				3.98	99.55
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.51	100.02



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/27/2016	<1.00	<1.00	<1.00	<1.00	3.76	99.77
	9/29/2016	<1.00	<1.00	<1.00	<1.00	4.47	99.06
	12/21/2016	<1.00	<1.00	<1.00	<1.00	4.56	99.17
	3/17/2017	<1.00	<1.00	<1.00	<1.00	5.95	97.78
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.90	99.83
	9/26/2017	<1.00	<1.00	<1.00	<1.00	4.06	99.67
	12/20/2017	<1.00	<1.00	<1.00	<1.00	3.86	99.87
	3/29/2018	<1.00	<1.00	<1.00	<1.00	5.35	98.38
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.40	100.33
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.42	99.31
	12/18/2018	<1.00	<1.00	<1.00	<1.00	4.93	98.80
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.14	98.59
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.58	98.15
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.65	98.08
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.13	97.60
MW17	12/2/2014	<1.0	<1.0	<1.0	<1.0	6.57	96.15
	3/3/2015	<1.0	<1.0	<1.0	<1.0	7.45	95.27
	6/5/2015	1.4	<1.0	1.5	4.3	3.85	98.87
	9/3/2015	<1.0	<1.0	<1.0	<1.0	2.68	100.04
	12/9/2015	3.4	<1.0	<1.0	<1.0	3.38	99.34
	3/9/2016	Surveyed - Not Sampled				3.94	98.81
	3/30/2016	<1.0	<1.0	<1.0	<1.0	3.52	99.23
	6/27/2016	5.41	<1.00	2.82	<1.00	3.64	99.11
	9/29/2016	3.19	<1.00	2.80	2.66	4.38	98.37
	12/21/2016	<1.00	<1.00	1.64	<1.00	4.38	98.51
	3/17/2017	2.45	<1.00	<1.00	<1.00	5.92	96.97
	6/19/2017	<1.00	<1.00	<1.00	<1.00	3.75	99.14
	9/26/2017	<1.00	<1.00	<1.00	<1.00	3.90	98.99
	12/20/2017	<1.00	<1.00	1.29	<1.00	3.77	99.12
	3/29/2018	21.9	<1.00	<1.00	<1.00	5.44	97.45
	6/25/2018	<1.00	<1.00	<1.00	<1.00	3.40	99.49
	9/17/2018	<1.00	<1.00	<1.00	<1.00	4.21	98.68
	12/18/2018	<1.00	<1.00	<1.00	<1.00	4.95	97.94
	3/26/2019	<1.00	<1.00	<1.00	<1.00	5.13	97.76



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-CHAKNOVA 14-5, HSR-MOORHEAD 13-5, HSR-BELL 12-5, HSR-CREASON 11-5
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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/24/2019	<1.00	<1.00	<1.00	<1.00	5.56	97.33
	9/16/2019	<1.00	<1.00	<1.00	<1.00	5.49	97.40
	12/6/2019	<1.00	<1.00	<1.00	<1.00	6.15	96.74

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

NM - not measured

BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.

 =Active remediation implementation period



April 02, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - HSR-Chaknova 14-5,
Moorhead 13-5, Bell 12-5**

Project Number - KMG10619/WO #880666

Attached are your analytical results for KMG - HSR-Chaknova 14-5, Moorhead 13-5, Bell 12-5 received by Origins Laboratory, Inc. March 26, 2019. This project is associated with Origins project number Y903387-01.

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
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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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y903387-01	Water	March 26, 2019 11:30	03/26/2019 16:10
MW02	Y903387-02	Water	March 26, 2019 11:40	03/26/2019 16:10
MW03	Y903387-03	Water	March 26, 2019 11:50	03/26/2019 16:10
MW04	Y903387-04	Water	March 26, 2019 12:00	03/26/2019 16:10
MW05	Y903387-05	Water	March 26, 2019 12:10	03/26/2019 16:10
MW06	Y903387-06	Water	March 26, 2019 12:20	03/26/2019 16:10
MW07	Y903387-07	Water	March 26, 2019 12:30	03/26/2019 16:10
MW08	Y903387-08	Water	March 26, 2019 12:40	03/26/2019 16:10
MW09	Y903387-09	Water	March 26, 2019 12:50	03/26/2019 16:10
MW10	Y903387-10	Water	March 26, 2019 13:00	03/26/2019 16:10
MW11	Y903387-11	Water	March 26, 2019 13:10	03/26/2019 16:10
MW12R	Y903387-12	Water	March 26, 2019 13:20	03/26/2019 16:10
MW13	Y903387-13	Water	March 26, 2019 13:30	03/26/2019 16:10
MW14	Y903387-14	Water	March 26, 2019 13:40	03/26/2019 16:10

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y903387-15	Water	March 26, 2019 13:50	03/26/2019 16:10
MW16	Y903387-16	Water	March 26, 2019 14:00	03/26/2019 16:10
MW17	Y903387-17	Water	March 26, 2019 14:10	03/26/2019 16:10

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead 13-5, Bell 12-5

1 of 2

ORIGINS
LABORATORY, INC

Y903387

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

Client: LT Environmental, Inc.	Project Manager: Brian Sulzberger
Project: KMG - HSR-Chaknova 14-5, Moorhead 13-5, Bell 12-5	Project Number: KMG10619/WO #88066082

Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MM01	Water	3/26/19	1130	12_40mL Amber VOA Vial - HCL clear vials	3	BTEX by EPA 8260C
02-001	MM02	Water		1140	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MM03	Water		1150	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MM04	Water		1200	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MM05	Water		1210	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MM06	Water		1220	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
07-001	MM07	Water		1230	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
08-001	MM08	Water		1240	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
09-001	MM09	Water		1250	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
10-001	MM10	Water		1300	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
11-001	MM11	Water		1310	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 9.1

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

Relinquished By: [Signature]
Date / Time: 3/26/19 1610
Received By: [Signature]
Date / Time: 3/26/19 1610

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Brian Sulzberger

Project Number: KMG10619/WO #88066082

Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

2 of 2

ORIGINS
LABORATORY, INC

7903887

LTE
KMG HSR-Chaknova 14-5
KMG 10619

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322

12-001	MW12R	Water	3/26/19	1320	JB	12_40mL Amber VOA-Vial-HCL clear w/ps.	3	BTEX by EPA 8260C
13-001	MW13	Water		1330		12_40mL Amber VOA-Vial-HCL	3	BTEX by EPA 8260C
14-001	MW14	Water		1340		12_40mL Amber VOA-Vial-HCL	3	BTEX by EPA 8260C
15-001	MW15	Water		1350		12_40mL Amber VOA-Vial-HCL	3	BTEX by EPA 8260C
16-001	MW16	Water		1400		12_40mL Amber VOA-Vial-HCL	3	BTEX by EPA 8260C
17-001	MW17	Water		1410		12_40mL Amber VOA-Vial-HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 9.1
Turn Around Time: ☐ 24-hr ☒ 48-hr
Same Day: ☐ 72-hr ☒ Standard

Relinquished By: Dr - Date / Time: 3/26/19 1610
Received By: Dr - Date / Time: 3/26/19 1610

Relinquished By: Dr - Date / Time: 3/26/19 1610
Received By: Dr - Date / Time: 3/26/19 1610

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y 903387

Client: LTE

Client Project ID: HSR - Chaknova 14-5, Moorhead

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 3/27/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9.1 °C / °C / °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>same Day</u>
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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<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 (Project Manager) JP

Date/Time Reviewed 3/27/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW01

3/26/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW02

3/26/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW03

3/26/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW04

3/26/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW05

3/26/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW06

3/26/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW07

3/26/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW08

3/26/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW09

3/26/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2803	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

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

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW10

3/26/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/28/2019	03/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	120	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW11

3/26/2019 1:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW12R

3/26/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW13

3/26/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW14

3/26/2019 1:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW15

3/26/2019 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-15 (Water)

BTEX by EPA 8260C

Benzene	16.5	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	132	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW16

3/26/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW17

3/26/2019 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903387-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2903	KDK	03/29/2019	03/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2803 - EPA 5030B (Water)										
Blank (B9C2803-BLK1)					Prepared: 03/28/2019 Analyzed: 03/28/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

Origins Laboratory, Inc.



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Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2803 - EPA 5030B (Water)

LCS (B9C2803-BS1)

Prepared: 03/28/2019 Analyzed: 03/28/2019

Benzene	45.3	1.00	ug/L	50.0		90.7	73.3-129			
Toluene	44.2	1.00	"	50.0		88.5	76.2-123			
Ethylbenzene	44.2	1.00	"	50.0		88.4	73.6-130			
m,p-Xylene	88.7	2.00	"	100		88.7	76.1-126			
o-Xylene	45.4	1.00	"	50.0		90.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2803 - EPA 5030B (Water)

Matrix Spike (B9C2803-MS1)		Source: Y903387-01			Prepared: 03/28/2019 Analyzed: 03/28/2019					
Benzene	47.7	1.00	ug/L	50.0	ND	95.4	74-130			
Toluene	46.2	1.00	"	50.0	ND	92.5	73-131			
Ethylbenzene	45.7	1.00	"	50.0	0.080	91.3	76-132			
m,p-Xylene	91.9	2.00	"	100	ND	91.9	69-139			
o-Xylene	46.7	1.00	"	50.0	ND	93.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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LT Environmental, Inc.
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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2803 - EPA 5030B (Water)

Matrix Spike Dup (B9C2803-MSD1)		Source: Y903387-01			Prepared: 03/28/2019 Analyzed: 03/28/2019					
Benzene	47.9	1.00	ug/L	50.0	ND	95.8	74-130	0.439	20	
Toluene	46.5	1.00	"	50.0	ND	92.9	73-131	0.496	20	
Ethylbenzene	45.8	1.00	"	50.0	0.080	91.5	76-132	0.240	20	
m,p-Xylene	92.2	2.00	"	100	ND	92.2	69-139	0.391	20	
o-Xylene	47.0	1.00	"	50.0	ND	94.0	74-131	0.705	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)										
Blank (B9C2903-BLK1)					Prepared: 03/29/2019 Analyzed: 03/29/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	84-114			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

Blank (B9C2903-BLK2)

Prepared: 03/29/2019 Analyzed: 03/29/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	84-114			

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LT Environmental, Inc.
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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

LCS (B9C2903-BS1)

Prepared: 03/29/2019 Analyzed: 03/29/2019

Benzene	43.9	1.00	ug/L	50.0		87.8	73.3-129			
Toluene	42.8	1.00	"	50.0		85.5	76.2-123			
Ethylbenzene	42.9	1.00	"	50.0		85.7	73.6-130			
m,p-Xylene	86.4	2.00	"	100		86.4	76.1-126			
o-Xylene	43.9	1.00	"	50.0		87.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

LCS (B9C2903-BS2)

Prepared: 03/29/2019 Analyzed: 03/29/2019

Benzene	52.8	1.00	ug/L	50.0		106	73.3-129			
Toluene	50.4	1.00	"	50.0		101	76.2-123			
Ethylbenzene	48.7	1.00	"	50.0		97.4	73.6-130			
m,p-Xylene	99.1	2.00	"	100		99.1	76.1-126			
o-Xylene	49.1	1.00	"	50.0		98.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

Matrix Spike (B9C2903-MS1)		Source: Y903387-11			Prepared: 03/29/2019 Analyzed: 03/29/2019					
Benzene	52.0	1.00	ug/L	50.0	ND	104	74-130			
Toluene	50.5	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.9	76-132			
m,p-Xylene	98.6	2.00	"	100	ND	98.6	69-139			
o-Xylene	48.8	1.00	"	50.0	ND	97.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

Matrix Spike (B9C2903-MS2)		Source: Y903387-12			Prepared: 03/29/2019 Analyzed: 03/29/2019					
Benzene	50.9	1.00	ug/L	50.0	ND	102	74-130			
Toluene	48.8	1.00	"	50.0	ND	97.6	73-131			
Ethylbenzene	47.6	1.00	"	50.0	ND	95.3	76-132			
m,p-Xylene	97.4	2.00	"	100	ND	97.4	69-139			
o-Xylene	48.9	1.00	"	50.0	ND	97.9	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

Matrix Spike Dup (B9C2903-MSD1)		Source: Y903387-11			Prepared: 03/29/2019 Analyzed: 03/29/2019					
Benzene	51.0	1.00	ug/L	50.0	ND	102	74-130	1.96	20	
Toluene	48.5	1.00	"	50.0	ND	96.9	73-131	4.08	20	
Ethylbenzene	47.4	1.00	"	50.0	ND	94.8	76-132	2.21	20	
m,p-Xylene	96.4	2.00	"	100	ND	96.4	69-139	2.23	20	
o-Xylene	48.6	1.00	"	50.0	ND	97.1	74-131	0.432	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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 B9C2903 - EPA 5030B (Water)

Matrix Spike Dup (B9C2903-MSD2)		Source: Y903387-12			Prepared: 03/29/2019 Analyzed: 03/29/2019					
Benzene	50.9	1.00	ug/L	50.0	ND	102	74-130	0.0589	20	
Toluene	48.2	1.00	"	50.0	ND	96.3	73-131	1.30	20	
Ethylbenzene	47.1	1.00	"	50.0	ND	94.2	76-132	1.12	20	
m,p-Xylene	96.1	2.00	"	100	ND	96.1	69-139	1.34	20	
o-Xylene	48.4	1.00	"	50.0	ND	96.7	74-131	1.19	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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July 01, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - HSR-Chaknova 14-5,
Moorhead 13-5, Bell 12-5**

Project Number - KMG10619/WO #880666

Attached are your analytical results for KMG - HSR-Chaknova 14-5, Moorhead 13-5, Bell 12-5 received by Origins Laboratory, Inc. June 24, 2019. This project is associated with Origins project number Y906418-01.

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



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y906418-01	Water	June 24, 2019 11:32	06/24/2019 16:00
MW02	Y906418-02	Water	June 24, 2019 11:39	06/24/2019 16:00
MW03	Y906418-03	Water	June 24, 2019 11:48	06/24/2019 16:00
MW04	Y906418-04	Water	June 24, 2019 11:57	06/24/2019 16:00
MW05	Y906418-05	Water	June 24, 2019 12:09	06/24/2019 16:00
MW06	Y906418-06	Water	June 24, 2019 12:17	06/24/2019 16:00
MW07	Y906418-07	Water	June 24, 2019 12:28	06/24/2019 16:00
MW08	Y906418-08	Water	June 24, 2019 12:36	06/24/2019 16:00
MW09	Y906418-09	Water	June 24, 2019 12:47	06/24/2019 16:00
MW10	Y906418-10	Water	June 24, 2019 12:59	06/24/2019 16:00
MW11	Y906418-11	Water	June 24, 2019 13:10	06/24/2019 16:00
MW12R	Y906418-12	Water	June 24, 2019 13:18	06/24/2019 16:00
MW13	Y906418-13	Water	June 24, 2019 13:27	06/24/2019 16:00
MW14	Y906418-14	Water	June 24, 2019 13:35	06/24/2019 16:00

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y906418-15	Water	June 24, 2019 13:44	06/24/2019 16:00
MW16	Y906418-16	Water	June 24, 2019 13:56	06/24/2019 16:00
MW17	Y906418-17	Water	June 24, 2019 14:05	06/24/2019 16:00

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

ORIGINS
LABORATORY, INC

1906418

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
Project: KMG - HSR-Chaknova 14-5, Moorhead 13-5 Project Number: KMG10619/WO #88066082

Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MW01	Water	06/24/19	1132	Tc	3	BTEX by EPA 8260C
02-001	MW02	Water		1139		3	BTEX by EPA 8260C
03-001	MW03	Water		1148		3	BTEX by EPA 8260C
04-001	MW04	Water		1157		3	BTEX by EPA 8260C
05-001	MW05	Water		1209		3	BTEX by EPA 8260C
06-001	MW06	Water		1217		3	BTEX by EPA 8260C
07-001	MW07	Water		1228		3	BTEX by EPA 8260C
08-001	MW08	Water		1236		3	BTEX by EPA 8260C
09-001	MW09	Water		1247		3	BTEX by EPA 8260C
10-001	MW10	Water		1254		3	BTEX by EPA 8260C
11-001	MW11	Water		1310		3	BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 06/24/19 1600
Received By: *[Signature]* Date / Time: 06/24/19 1600

Temperature on Receipt: 4.0
Turn Around Time: Same Day ☐ 72-hr ☐ 24-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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

ORIGINS
LABORATORY, INC

1906418

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

12-001	MW12R	Water	06/24/19	1318	TC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	MW13	Water		1318		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	MW14	Water		1323		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MW15	Water		1335		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MW16	Water		1356		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MW17	Water		1405	✓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 4.0
Turn Around Time:
Same Day: ☐ 72-hr: ☐ Standard: ☒
24-hr: ☐ 48-hr: ☐

Relinquished By: [Signature]
Date / Time: 6/24/19 1600
Received By: [Signature]
Date / Time: 6/24/19 1600

Relinquished By: [Signature]
Date / Time: 6/24/19 1600
Received By: [Signature]
Date / Time: 6/24/19 1600

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y906418

Client: LTE

Client Project ID: HSR-Chaknova 14-5, Moorhead

Checklist Completed by: JG

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

Date/time completed: 6/25/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.0 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C

Thermometer ID: T003

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]

Date/Time Reviewed 6/26/19

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW01

6/24/2019 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906418-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW02

6/24/2019 11:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW03

6/24/2019 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW04

6/24/2019 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW05

6/24/2019 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW06

6/24/2019 12:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW07

6/24/2019 12:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW08

6/24/2019 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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Project Number: KMG10619/WO #88066082
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13-5, Bell 12-5

MW09

6/24/2019 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-09 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW10

6/24/2019 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	14.0	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW11

6/24/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW12R

6/24/2019 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130	"	"	"

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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW13

6/24/2019 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW14

6/24/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW15

6/24/2019 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-15 (Water)

BTEX by EPA 8260D

Benzene	10.7	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	8.48	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW16

6/24/2019 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.4 %	70-130	"	"	"

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW17

6/24/2019 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906418-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2701	JTD	06/27/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2701 - EPA 5030B (Water)

Blank (B9F2701-BLK1)

Prepared: 06/27/2019 Analyzed: 06/27/2019

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	59		"	62.5		95.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2701 - EPA 5030B (Water)

LCS (B9F2701-BS1)

Prepared: 06/27/2019 Analyzed: 06/27/2019

Benzene	49.2	1.00	ug/L	50.0		98.4	70-130			
Toluene	53.5	1.00	"	50.0		107	70-130			
Ethylbenzene	53.5	1.00	"	50.0		107	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
o-Xylene	50.7	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2701 - EPA 5030B (Water)

Matrix Spike (B9F2701-MS1)		Source: Y906418-02			Prepared: 06/27/2019 Analyzed: 06/27/2019					
Benzene	51.6	1.00	ug/L	50.0	ND	103	70-130			
Toluene	56.5	1.00	"	50.0	ND	113	70-130			
Ethylbenzene	57.5	1.00	"	50.0	ND	115	70-130			
m,p-Xylene	113	2.00	"	100	0.390	112	70-130			
o-Xylene	54.3	1.00	"	50.0	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2701 - EPA 5030B (Water)

Matrix Spike Dup (B9F2701-MSD1)		Source: Y906418-02			Prepared: 06/27/2019 Analyzed: 06/27/2019					
Benzene	52.1	1.00	ug/L	50.0	ND	104	70-130	0.868	20	
Toluene	57.7	1.00	"	50.0	ND	115	70-130	2.14	20	
Ethylbenzene	57.8	1.00	"	50.0	ND	116	70-130	0.538	20	
m,p-Xylene	115	2.00	"	100	0.390	114	70-130	1.67	20	
o-Xylene	55.1	1.00	"	50.0	ND	110	70-130	1.50	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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.



September 20, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - HSR-Chaknova 14-5,
Moorhead 13-5, Bell 12-5**

Project Number - KMG10619/WO #880666

Attached are your analytical results for KMG - HSR-Chaknova 14-5, Moorhead 13-5, Bell 12-5 received by Origins Laboratory, Inc. September 16, 2019. This project is associated with Origins project number Y909222-01.

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y909222-01	Water	September 16, 2019 10:45	09/16/2019 14:55
MW02	Y909222-02	Water	September 16, 2019 10:51	09/16/2019 14:55
MW03	Y909222-03	Water	September 16, 2019 10:57	09/16/2019 14:55
MW04	Y909222-04	Water	September 16, 2019 11:04	09/16/2019 14:55
MW05	Y909222-05	Water	September 16, 2019 11:10	09/16/2019 14:55
MW06	Y909222-06	Water	September 16, 2019 11:17	09/16/2019 14:55
MW07	Y909222-07	Water	September 16, 2019 11:23	09/16/2019 14:55
MW08	Y909222-08	Water	September 16, 2019 11:29	09/16/2019 14:55
MW09	Y909222-09	Water	September 16, 2019 11:35	09/16/2019 14:55
MW10	Y909222-10	Water	September 16, 2019 11:41	09/16/2019 14:55
MW11	Y909222-11	Water	September 16, 2019 11:47	09/16/2019 14:55
MW12R	Y909222-12	Water	September 16, 2019 11:54	09/16/2019 14:55
MW13	Y909222-13	Water	September 16, 2019 12:01	09/16/2019 14:55
MW14	Y909222-14	Water	September 16, 2019 12:07	09/16/2019 14:55

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y909222-15	Water	September 16, 2019 12:14	09/16/2019 14:55
MW16	Y909222-16	Water	September 16, 2019 12:20	09/16/2019 14:55
MW17	Y909222-17	Water	September 16, 2019 12:26	09/16/2019 14:55

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5



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

1/2

Y09222

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: KMG10619/WO #88066082	
Project: KMG - HSR-Chaknova 14-5, Moorhead 13-5		Sample Time		Container	
Number	Sample Identification	Matrix	Sample Date	Sample Time	Analyses
01-001	MM01	Water	09/16/19	TC	3 BTEX by EPA 8260C
02-001	MM02	Water		1051	3 BTEX by EPA 8260C
03-001	MM03	Water		1057	3 BTEX by EPA 8260C
04-001	MM04	Water		1104	3 BTEX by EPA 8260C
05-001	MM05	Water		1110	3 BTEX by EPA 8260C
06-001	MM06	Water		1117	3 BTEX by EPA 8260C
07-001	MM07	Water		1133	3 BTEX by EPA 8260C
08-001	MM08	Water		1139	3 BTEX by EPA 8260C
09-001	MM09	Water		1135	3 BTEX by EPA 8260C
10-001	MM10	Water		1141	3 BTEX by EPA 8260C
11-001	MM11	Water		1147	3 BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 09/16/19 1455

Received By: *[Signature]* Date / Time: 9-16-19 1455

Temperature on Receipt: 9.3

Turn Around Time: ☐ 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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

ORIGINS
LABORATORY, INC

1909222

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

12-001	MW12R	Water	09/16/19	1154	TC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	MW13	Water		1301		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	MW14	Water		1307		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MW15	Water		1314		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MW16	Water		1320		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MW17	Water		1326		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 9.3
Turn Around Time:
Same Day: ☐ 72-hr: ☒
24-hr: ☐ Standard: ☐
48-hr: ☐

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

Relinquished By: _____ Date / Time: 09/16/19 1455
Received By: _____ Date / Time: 9-16-19 1455

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4909222

Client: LTE

Client Project ID: HSR Chaknova 14-5, Moorh

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 9/16/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 9.3 °C / °C / °C (Describe)

Thermometer ID: T003

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"/>		<u>Same Day</u>
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 (Project Manager) JG

Date/Time Reviewed 9/17/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW01

9/16/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW02

9/16/2019 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW03

9/16/2019 10:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909222-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW04

9/16/2019 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW05

9/16/2019 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW06

9/16/2019 11:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW07

9/16/2019 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW08

9/16/2019 11:29:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW09

9/16/2019 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW10

9/16/2019 11:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW11

9/16/2019 11:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW12R

9/16/2019 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW13

9/16/2019 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW14

9/16/2019 12:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW15

9/16/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-15 (Water)

BTEX by EPA 8260D

Benzene	1.86	1.00	ug/L	1	B911801	KDK	09/18/2019	09/19/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

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

102 % 70-130
101 % 70-130
101 % 70-130

" " "
" " "
" " "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW16

9/16/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW17

9/16/2019 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909222-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91801	KDK	09/18/2019	09/19/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1801 - EPA 5030B (Water)

Blank (B9I1801-BLK1)

Prepared: 09/18/2019 Analyzed: 09/19/2019

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		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1801 - EPA 5030B (Water)

LCS (B9I1801-BS1)

Prepared: 09/18/2019 Analyzed: 09/19/2019

Benzene	50.6	1.00	ug/L	50.0		101	70-130			
Toluene	50.8	1.00	"	50.0		102	70-130			
Ethylbenzene	52.2	1.00	"	50.0		104	70-130			
m,p-Xylene	99.8	2.00	"	100		99.8	70-130			
o-Xylene	49.0	1.00	"	50.0		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1801 - EPA 5030B (Water)

Matrix Spike (B9I1801-MS1)		Source: Y909222-01			Prepared: 09/18/2019 Analyzed: 09/19/2019					
Benzene	55.0	1.00	ug/L	50.0	ND	110	70-130			
Toluene	55.0	1.00	"	50.0	ND	110	70-130			
Ethylbenzene	55.3	1.00	"	50.0	ND	111	70-130			
m,p-Xylene	106	2.00	"	100	0.190	106	70-130			
o-Xylene	52.0	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1801 - EPA 5030B (Water)

Matrix Spike Dup (B9I1801-MSD1)		Source: Y909222-01			Prepared: 09/18/2019 Analyzed: 09/19/2019					
Benzene	51.9	1.00	ug/L	50.0	ND	104	70-130	5.84	20	
Toluene	50.8	1.00	"	50.0	ND	102	70-130	8.02	20	
Ethylbenzene	51.5	1.00	"	50.0	ND	103	70-130	7.10	20	
m,p-Xylene	99.0	2.00	"	100	0.190	98.8	70-130	6.93	20	
o-Xylene	48.0	1.00	"	50.0	ND	95.9	70-130	8.10	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

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.



December 11, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - HSR-Chaknova 14-5,
Moorhead 13-5, Bell 12-5**

Project Number - KMG10619/WO #880666

Attached are your analytical results for KMG - HSR-Chaknova 14-5, Moorhead 13-5, Bell 12-5 received by Origins Laboratory, Inc. December 06, 2019. This project is associated with Origins project number Y912102-01.

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: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y912102-01	Water	December 6, 2019 14:05	12/06/2019 16:47
MW02	Y912102-02	Water	December 6, 2019 14:11	12/06/2019 16:47
MW03	Y912102-03	Water	December 6, 2019 14:17	12/06/2019 16:47
MW04	Y912102-04	Water	December 6, 2019 14:25	12/06/2019 16:47
MW05	Y912102-05	Water	December 6, 2019 14:31	12/06/2019 16:47
MW06	Y912102-06	Water	December 6, 2019 14:37	12/06/2019 16:47
MW07	Y912102-07	Water	December 6, 2019 14:44	12/06/2019 16:47
MW08	Y912102-08	Water	December 6, 2019 14:50	12/06/2019 16:47
MW09	Y912102-09	Water	December 6, 2019 14:55	12/06/2019 16:47
MW10	Y912102-10	Water	December 6, 2019 15:01	12/06/2019 16:47
MW11	Y912102-11	Water	December 6, 2019 15:06	12/06/2019 16:47
MW12R	Y912102-12	Water	December 6, 2019 15:11	12/06/2019 16:47
MW13	Y912102-13	Water	December 6, 2019 15:15	12/06/2019 16:47
MW14	Y912102-14	Water	December 6, 2019 15:21	12/06/2019 16:47

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y912102-15	Water	December 6, 2019 15:27	12/06/2019 16:47
MW16	Y912102-16	Water	December 6, 2019 15:33	12/06/2019 16:47
MW17	Y912102-17	Water	December 6, 2019 15:39	12/06/2019 16:47

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/VO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

ORIGINS
LABORATORY, INC

Y912102

g10f2

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: KMG10619/VO #88066082		Analyses	
Project: KMG - HSR-Chaknova 14-5, Moorhead 13-5		Sample Time		Container		Qty	
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MW01	Water	12-6-19	1405	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW02	Water	12-6-19	1411	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW03	Water	12-6-19	1417	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW04	Water	12-6-19	1425	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW05	Water	12-6-19	1431	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW06	Water	12-6-19	1437	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MW07	Water	12-6-19	1444	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MW08	Water	12-6-19	1450	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MW09	Water	12-6-19	1455	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
10-001	MW10	Water	12-6-19	1501	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
11-001	MW11	Water	12-6-19	1506	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 12-6-19 1647
Received By: *[Signature]* Date / Time: 12-6-19 1647

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

Temperature on Receipt: 4.9
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 24-hr ☐ 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: KMG10619/WO #88066082

Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

ORIGINS
LABORATORY, INC

Y91202

g20f2

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

12-001	MW12R	Water	12-6-19	1511	TL + 25	40mL Amber VOA Vial - HC	2	BTEX by EPA 8260C
13-001	MW13	Water		1515		40mL Amber VOA Vial - HC	2	BTEX by EPA 8260C
14-001	MW14	Water		1521		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MW15	Water		1527		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MW16	Water		1533		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MW17	Water		1539		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 41.9
Turn Around Time: ☒ 24-hr ☐ 72-hr ☐ Standard
Same Day: ☐ 24-hr ☐ 48-hr

Relinquished By: [Signature] Date / Time: 12-6-19 16:47
Received By: [Signature] Date / Time: 12-6-19 16:47
Relinquished By: [Signature] Date / Time: 12-6-19 16:47
Received By: [Signature] Date / Time: 12-6-19 16:47

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4912102

Client: LTE

Client Project ID: KMG - HSR-Chaknova

Checklist Completed by: JP

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

Date/time completed: 12/16/19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 49 °C 1 / 49 °C 1 / 49 °C 1 / 49 °C

Thermometer ID: FOCB

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 (> 1/4 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCL</u>
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]

Date/Time Reviewed: 12-9-19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW01

12/6/2019 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	4.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	4.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW02

12/6/2019 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW03

12/6/2019 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW04

12/6/2019 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW05

12/6/2019 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW06

12/6/2019 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	"	"	"
Surrogate: Toluene-d8	97.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW07

12/6/2019 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130	"	"	"
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW08

12/6/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW09

12/6/2019 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW10

12/6/2019 3:01:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW11

12/6/2019 3:06:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW12R

12/6/2019 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW13

12/6/2019 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW14

12/6/2019 3:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"

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Brian Sulzberger
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Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW15

12/6/2019 3:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-15 (Water)

BTEX by EPA 8260D

Benzene	5.24	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

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

120 %
99.2 %
89.9 %

70-130
70-130
70-130

"
"
"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
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Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW16

12/6/2019 3:33:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

MW17

12/6/2019 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912102-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0901	ZZZ	12/09/2019	12/10/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9L0901 - EPA 5030B (Water)										
Blank (B9L0901-BLK1)					Prepared: 12/09/2019 Analyzed: 12/10/2019					
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	73		"	62.5	117		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.8		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.6		70-130			

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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9L0901 - EPA 5030B (Water)										
LCS (B9L0901-BS1)					Prepared: 12/09/2019 Analyzed: 12/10/2019					
Benzene	44.9	1.00	ug/L	50.0		89.8	70-130			
Toluene	44.1	1.00	"	50.0		88.1	70-130			
Ethylbenzene	46.5	1.00	"	50.0		93.0	70-130			
m,p-Xylene	95.0	2.00	"	100		95.0	70-130			
o-Xylene	47.0	1.00	"	50.0		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	70-130			

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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9L0901 - EPA 5030B (Water)

Matrix Spike (B9L0901-MS1)		Source: Y912102-02			Prepared: 12/09/2019 Analyzed: 12/10/2019					
Benzene	54.5	1.00	ug/L	50.0	ND	109	70-130			
Toluene	52.6	1.00	"	50.0	ND	105	70-130			
Ethylbenzene	54.1	1.00	"	50.0	ND	108	70-130			
m,p-Xylene	112	2.00	"	100	ND	112	70-130			
o-Xylene	59.4	1.00	"	50.0	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	77		"	62.5		123	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.4	70-130			

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Brian Sulzberger
Project Number: KMG10619/WO #88066082
Project: KMG - HSR-Chaknova 14-5, Moorhead
13-5, Bell 12-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9L0901 - EPA 5030B (Water)

Matrix Spike Dup (B9L0901-MSD1)		Source: Y912102-02			Prepared: 12/09/2019 Analyzed: 12/10/2019					
Benzene	38.3	1.00	ug/L	50.0	ND	76.6	70-130	35.0	20	QR-02
Toluene	37.2	1.00	"	50.0	ND	74.5	70-130	34.2	20	QR-02
Ethylbenzene	39.3	1.00	"	50.0	ND	78.6	70-130	31.7	20	QR-02
m,p-Xylene	80.6	2.00	"	100	ND	80.6	70-130	32.6	20	QR-02
o-Xylene	41.6	1.00	"	50.0	ND	83.3	70-130	35.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.3	70-130			

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13-5, Bell 12-5

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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