

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**JACK BERGER C #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)									
				500			0.17	85	100	175	23	4	(6-9)
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)
B01 @ 6'	12/11/2015	6'	342	<b>400</b>	<b>620</b>	<b>210</b>	<b>1.21</b>	0.218	0.392	1.18	NA	0.202	8.68
E01 @ 3'	12/11/2015	3'	45.2	21.6	130	330	<0.050	0.075	<0.050	1.10	NA	0.236	8.59
N01 @ 3'	12/11/2015	3'	25.6	12.9	<25	<100	<0.050	0.087	<0.050	0.788	NA	0.280	<b>9.12 †</b>
S01 @ 3'	12/11/2015	3'	1.5	0.211	<25	<100	<0.002	<0.002	<0.002	<0.002	NA	0.0481	8.86
W01 @ 3'	12/11/2015	3'	14.8	2.90	<25	<100	0.009	0.034	0.009	0.304	NA	0.236	8.68
B02 @ 8.5'	12/17/2015	8.5'	162.4	<b>88.1</b>	<b>620</b>	<b>100</b>	0.146	1.77	0.180	0.126	NA	0.221	8.53
TB-B01 @ 11'	02/18/2016	11'	895	<b>1700</b>	<b>2300</b>	<b>&lt;100</b>	<b>2.78</b>	0.078	21.6	12.0	NA	0.112	8.10
TB-E01 @ 7'	02/18/2016	7'	1392	<b>256</b>	<b>1900</b>	<b>170</b>	0.142	<0.050	3.12	0.807	NA	0.0903	8.37
TB-N01 @ 7'	02/18/2016	7'	592	76.3	52	<100	<0.050	<0.050	<0.050	<0.050	NA	0.329	7.98
TB-S01 @ 7'	02/18/2016	7'	18.9	1.33	<25	<100	0.005	<0.002	<0.002	0.011	NA	0.282	7.80
TB-W01 @ 7'	02/18/2016	7'	693	<b>222</b>	<b>1000</b>	<b>&lt;100</b>	<0.050	<0.050	0.074	0.382	NA	0.185	8.08
SB01 @ 8'	02/25/2016	8'	0.2	<0.200	<25	<100	<0.002	<0.002	<0.002	<0.002	NA	0.153	8.40
SB02 @ 8'	02/25/2016	8'	1.1	<0.200	<25	<100	<0.002	<0.002	<0.002	0.005	NA	0.109	8.60
SB03 @ 8'	02/25/2016	8'	973	<b>262</b>	<b>1300</b>	<b>210</b>	<0.050	<0.050	0.052	<0.050	NA	0.122	8.26
SB04 @ 8'	02/25/2016	8'	897	<b>363</b>	<b>350</b>	<b>&lt;100</b>	0.096	<0.050	<0.050	<0.050	NA	0.131	8.18
SB05 @ 6'	02/25/2016	6'	254	67.3	<25	<100	<0.050	<0.050	<0.050	<0.050	NA	0.146	8.32
SB06 @ 6'	03/01/2016	6'	83.7	19.4	<25	<100	0.125	<0.050	<0.050	<0.050	NA	0.137	8.71



**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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**KERR-MCGEE OIL & GAS ONSHORE, LP**

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)									
				500			0.17	85	100	175	23	4	(6-9)
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)
SB07 @ 6'	03/01/2016	6'	6.5	<5.00	<25	<100	<0.050	<0.050	<0.050	<0.050	NA	0.201	8.06
SB08 @ 8'	03/01/2016	8'	212	<b>375</b>	<b>150</b>	<b>&lt;100</b>	<b>0.897</b>	0.075	1.97	<0.050	NA	0.118	8.22
SB09 @ 8'	03/01/2016	8'	485	<b>1000</b>	<b>500</b>	<b>150</b>	<b>2.21</b>	<0.050	0.353	<0.050	NA	0.117	8.36
SB11 @ 6'	03/01/2016	6'	1.4	<0.200	<25	<100	<0.002	<0.002	<0.002	<0.002	NA	0.120	7.75
SB12@6'	04/27/2018	6'	46.7	0.279	<25.0	<100	<0.002	<0.002	<0.002	<0.002	NA	NA	NA
SB13@8'	04/27/2018	8'	2230	<b>1600</b>	<b>661</b>	<b>198</b>	0.062	<0.050	<0.050	<0.050	NA	NA	NA
SB14@10.5'	04/27/2018	10.5'	2106	<b>53.0</b>	<b>2140</b>	<b>740</b>	<0.050	<0.050	<0.050	<0.050	NA	NA	NA
SB14@6'	04/27/2018	6'	1789	<b>16.2</b>	<b>1220</b>	<b>425</b>	0.002	<0.002	0.002	<0.002	NA	NA	NA
SB15@8'	04/27/2018	8'	149	<b>7.85</b>	<b>377</b>	<b>191</b>	<0.002	<0.002	<0.002	<0.002	NA	NA	NA
SB17@15'	06/20/2019	15'	319	5.95	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.125	8.10
SB16@9.5'	06/21/2019	9.5'	11216	<b>2440</b>	<b>2070</b>	<b>812</b>	0.056	<0.050	0.242	0.212	0.426	0.160	8.28
SB18@12.5'	06/21/2019	12.5'	1815	128	173	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.150	7.98
SB19@12'	06/21/2019	12'	0.0	0.947	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	0.104	8.44
SB20@13.5'	06/21/2019	13.5'	0.1	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.0855	8.52
SB21@12'	06/21/2019	12'	5517	<b>278</b>	<b>413</b>	<b>&lt;100</b>	<0.050	<0.050	<0.050	<0.050	<0.200	0.0853	8.27
SB22@12'	06/21/2019	12'	4220	215	229	<100	<0.050	<0.050	<0.050	<0.050	0.534	0.0970	8.24
SB23@13'	11/20/2019	13'	275	NA	84.3	<100	NA	NA	NA	NA	NA	NA	NA



**TABLE 1 (Continued)**  
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COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)									
				500			0.17	85	100	175	23	4	(6-9)
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)
SB23@8.5'	11/20/2019	8.5'	13.4	NA	138	<100	NA	NA	NA	NA	NA	NA	NA
SB24@8.5'	11/20/2019	8.5'	559	NA	94.7	<100	NA	NA	NA	NA	NA	NA	NA
SB25@14'	11/20/2019	14'	1304	248	118	<100	<0.0500	<0.0500	<0.0500	0.0570	NA	NA	NA
SB25@8.5'	11/20/2019	8.5'	284	<b>432</b>	<b>71.6</b>	<b>&lt;100</b>	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA
SB26@10.5'	11/20/2019	10.5'	0.0	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
SB27@10.5'	11/20/2019	10.5'	0.0	NA	<25.0	<100	NA	NA	NA	NA	NA	NA	NA
SB27@12'	11/20/2019	12'	1028	<b>NA</b>	<b>400</b>	<b>117</b>	NA	NA	NA	NA	NA	NA	NA
SB28@8'	11/20/2019	8'	6.0	<5.00	<25.0	<100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA
SB29@12'	11/22/2019	12'	760.3	142	243	<100	<0.0500	<0.0500	<0.0500	0.0500	NA	NA	NA
SB29@8'	11/22/2019	8'	50.8	1.25	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
SB30@10'	11/22/2019	10'	3.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
SB31@3.5'	11/22/2019	3.5'	2.3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
SB32@6'	11/22/2019	6'	NA	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
SB33@14'	01/15/2020	14'	388.0	155	185	<100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA
SB33@2'	01/15/2020	2'	41.1	<5.00	<25.0	<100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA
SB34@10'	01/15/2020	10'	3.5	<5.00	<25.0	<100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA
SB34@17'	01/15/2020	17'	603.7	<5.00	<25.0	<100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA



**TABLE 1 (Continued)**  
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COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)									
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Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)
SB35@10'	01/15/2020	10'	1.8	<5.00	<25.0	<100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA
SB35@20'	01/15/2020	20'	2.4	<b>294</b>	<b>363</b>	<b>&lt;100</b>	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	NA

Notes: mg/kg - milligrams per kilogram  
COGCC - Colorado Oil and Gas Conservation Commission  
bgs - below ground surface  
ppm - parts per million  
TPH - total petroleum hydrocarbons  
GRO - gasoline range organics

DRO - diesel range organics  
RRO - residual range organics  
EC - Specific Conductance  
mmhos/cm - millimhos per centimeter  
NA - not analyzed  
**Bold** indicates result exceeds allowable level  
† - Sample was collected at a depth greater than 3 feet bgs



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**BERGER JACK C #1**  
**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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
GW01	12/18/2015	1990	55.0	20.3	25.5	9	NA
SB01GW	2/26/2016	89.9	<4.0	462	1700	12.00	NA
SB02GW	2/26/2016	<4.0	<4.0	<4.0	<4.0	10.00	NA
SB03GW	2/26/2016	3850	<4.0	178	<4.0	10.00	NA
SB04GW	2/26/2016	259	<4.0	10.2	<4.0	10.00	NA
SB05GW	2/26/2016	88.0	<4.0	4.3	<4.0	8.00	NA
SB06GW	3/2/2016	2980	<4.0	<4.0	<4.0	8.00	NA
SB07GW	3/2/2016	32.9	<4.0	5.7	<4.0	8.00	NA
SB08GW	3/2/2016	2900	<4.0	38.4	<4.0	10.00	NA
SB09GW	3/2/2016	860	<4.0	33.3	<4.0	10.00	NA
SB11GW	3/2/2016	7.8	<4.0	<4.0	<4.0	8.00	NA
MW01	5/4/2018	121	<4.00	4.56	<4.00	12.28	88.11
	8/23/2018	489	<4.00	<4.00	<4.00	6.92	93.47
	11/29/2018	371	<4.00	4.12	<4.00	9.49	90.90
	2/12/2019	237	<4.00	<4.00	<4.00	11.35	89.04
	5/6/2019	295	<4.00	<4.00	<4.00	12.33	88.06
	8/2/2019	<4.00	<4.00	<4.00	<4.00	6.26	94.13
	11/25/2019	42.6	<4.00	<4.00	<4.00	9.24	91.15
	2/20/2020	85.2	<4.00	<4.00	<4.00	11.17	89.22
MW02	5/4/2018	<1.00	<1.00	<1.00	<1.00	12.76	87.71
	8/23/2018	<1.00	<1.00	<1.00	<1.00	7.30	93.17
	11/29/2018	<1.00	<1.00	<1.00	<1.00	10.04	90.43
	2/12/2019	5.98	<1.00	<1.00	<1.00	11.87	88.60
	5/6/2019	<1.00	<1.00	<1.00	<1.00	13.44	87.03



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**BERGER JACK C #1**  
**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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	8/2/2019	<1.00	<1.00	<1.00	<1.00	5.87	94.60
	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.70	90.77
	2/20/2020	<1.00	<1.00	<1.00	<1.00	11.63	88.84
MW03	5/4/2018	<1.00	<1.00	<1.00	<1.00	12.24	87.77
	8/23/2018	<1.00	<1.00	<1.00	<1.00	6.50	93.51
	11/29/2018	<1.00	<1.00	<1.00	<1.00	9.50	90.51
	2/12/2019	<1.00	<1.00	<1.00	<1.00	11.36	88.65
	5/6/2019	<1.00	<1.00	<1.00	<1.00	12.32	87.69
	8/2/2019	<1.00	<1.00	<1.00	<1.00	4.84	95.17
	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.21	90.80
	2/20/2020	<1.00	<1.00	<1.00	<1.00	11.16	88.85
MW04	5/4/2018	<b>53.3</b>	<1.00	<1.00	<1.00	11.72	88.25
	8/23/2018	<1.00	<1.00	<1.00	<1.00	6.06	93.91
	11/29/2018	<1.00	<1.00	<1.00	<1.00	8.88	91.09
	2/12/2019	<1.00	<1.00	<1.00	1.01	10.76	89.21
	5/6/2019	<1.00	<1.00	<1.00	<1.00	11.75	88.22
	8/2/2019	<1.00	<1.00	<1.00	<1.00	4.77	95.20
	11/25/2019	<1.00	<1.00	<1.00	<1.00	8.66	91.31
	2/20/2020	<1.00	<1.00	<1.00	<1.00	10.59	89.38
MW05	5/4/2018	<b>1,390</b>	<10.0	<10.0	<10.0	13.15	88.46
	8/23/2018	<b>1,020</b>	<10.0	<10.0	<10.0	8.17	93.44
	11/29/2018	<b>122</b>	<1.00	7.10	<1.00	10.30	91.31
	2/12/2019	<b>1,180</b>	<10.0	<10.0	13.8	12.13	89.48
	5/6/2019	<b>526</b>	<10.0	<10.0	<10.0	13.15	88.46
	8/2/2019	<b>663</b>	<10.0	<10.0	<10.0	8.01	93.60
	11/25/2019	<b>45.6</b>	<4.00	<4.00	<4.00	10.05	91.56
	2/20/2020	<b>334</b>	<10.0	<10.0	<10.0	11.95	89.66
MW06	5/4/2018	<b>961</b>	<1.00	3.40	<1.00	12.25	88.40
	8/23/2018	<1.00	<1.00	<1.00	<1.00	6.80	93.85
	11/29/2018	<1.00	<1.00	<1.00	<1.00	9.22	91.43
	2/12/2019	1.87	<1.00	<1.00	7.14	11.22	89.43
	5/6/2019	<b>32.4</b>	<1.00	1.88	<1.00	12.27	88.38



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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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	8/2/2019	<1.00	<1.00	<1.00	<1.00	6.07	94.58
	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.11	91.54
	2/20/2020	<1.00	<1.00	<1.00	<1.00	11.08	89.57
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MW07	5/4/2018	<b>12.2</b>	<1.00	<1.00	<1.00	11.71	88.59
	8/23/2018	<b>34.0</b>	<1.00	5.89	<1.00	6.43	93.87
	11/29/2018	<1.00	<1.00	<1.00	<1.00	8.78	91.52
	2/12/2019	1.48	<1.00	2.09	10.5	10.65	89.65
	5/6/2019	<b>5.17</b>	<1.00	2.02	<1.00	11.67	88.63
	8/2/2019	<b>16.4</b>	<1.00	4.14	<1.00	5.91	94.39
	11/25/2019	<b>13.4</b>	<1.00	1.52	<1.00	8.58	91.72
	2/20/2020	1.84	<1.00	<1.00	<1.00	10.64	89.66
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MW08	5/4/2018	<b>92.2</b>	<1.00	1.54	<1.00	12.71	88.79
	8/23/2018	<b>29.4</b>	<1.00	6.61	<1.00	7.90	93.60
	11/29/2018	<b>9.38</b>	<1.00	7.85	<1.00	9.82	91.68
	2/12/2019	2.95	<1.00	7.93	13.8	11.65	89.85
	5/6/2019	<b>12.4</b>	<1.00	6.22	<1.00	12.71	88.79
	8/2/2019	<b>6.95</b>	<1.00	1.26	<1.00	8.05	93.45
	11/25/2019	<b>16.4</b>	<1.00	6.38	<1.00	9.41	92.09
	2/20/2020	<b>11.1</b>	<1.00	6.38	<1.00	11.49	90.01
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MW09	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.60	88.56
	8/2/2019	<b>39.6</b>	<1.00	115	<1.00	10.01	92.65
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.78	91.88
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.73	89.93
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MW10	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.12	88.21
	8/2/2019	<1.00	<1.00	<1.00	<1.00	8.73	93.36
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.69	91.40
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.67	89.42
<hr/>							
MW11	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.18	87.91
	8/2/2019	<1.00	<1.00	<1.00	<1.00	7.74	93.90
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.60	91.04
	2/20/2020	<4.00	<4.00	<4.00	<4.00	13.29	88.35



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**BERGER JACK C #1**  
**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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
MW12	6/27/2019	<b>11.5</b>	<1.00	1.79	<1.00	12.69	88.81
	8/2/2019	<b>148</b>	<1.00	<1.00	<1.00	9.03	92.98
	11/25/2019	<b>18.1</b>	<1.00	5.02	<1.00	9.91	92.10
	2/20/2020	<4.00	<4.00	<4.00	<4.00	11.81	90.20
MW13	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.35	88.68
	8/2/2019	<1.00	<1.00	<1.00	<1.00	10.09	92.54
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.54	92.09
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.46	90.17
MW14	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.48	88.37
	8/2/2019	<1.00	<1.00	<1.00	<1.00	9.34	92.88
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.60	91.62
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.56	89.66
MW15	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.18	88.05
	8/2/2019	<1.00	<1.00	<1.00	<1.00	8.49	93.34
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.60	91.23
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.55	89.28
MW16	6/27/2019	<1.00	<1.00	<1.00	<1.00	12.75	87.67
	8/2/2019	<1.00	<1.00	<1.00	<1.00	6.42	94.56
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.38	90.60
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.26	88.72
MW17	6/27/2019	<1.00	<1.00	<1.00	<1.00	11.51	87.73
	8/2/2019	<1.00	<1.00	<1.00	<1.00	4.81	94.98
	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.21	90.58
	2/20/2020	<1.00	<1.00	<1.00	<1.00	11.17	88.62
MW18	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.69	88.81
	8/2/2019	<1.00	<1.00	<1.00	<1.00	10.88	92.33
	11/25/2019	3.85	<1.00	<1.00	<1.00	10.97	92.24
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.91	90.30





**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**BERGER JACK C #1**  
**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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
MW19	6/27/2019	<b>40.2</b>	<1.00	1.83	<1.00	13.11	88.89
	8/2/2019	<b>22.5</b>	<1.00	<1.00	<1.00	9.87	92.62
	11/25/2019	<b>117</b>	<4.00	<4.00	<4.00	10.23	92.26
	2/20/2020	<b>10.8</b>	<1.00	<1.00	<1.00	12.17	90.32
MW20	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.21	92.07
	2/20/2020	<1.00	<1.00	<1.00	<1.00	11.15	90.13
MW21	11/25/2019	1.19	<1.00	3.09	<1.00	9.07	92.02
	2/20/2020	<b>14.2</b>	<1.00	6.33	<1.00	11.04	90.05
MW22	11/25/2019	<1.00	<1.00	3.27	<1.00	8.99	91.89
	2/20/2020	<1.00	<1.00	1.74	<1.00	11.05	89.83
MW23	11/25/2019	1.09	<1.00	<1.00	<1.00	10.81	91.86
	2/20/2020	<1.00	<1.00	<1.00	<1.00	12.74	89.93
MW24	11/25/2019	<1.00	<1.00	<1.00	<1.00	12.24	92.33
	2/20/2020	<1.00	<1.00	<1.00	<1.00	14.05	90.52
MW25	11/25/2019	<1.00	<1.00	3.09	<1.00	11.69	92.44
	2/20/2020	<1.00	<1.00	3.29	<1.00	13.59	90.54
MW26	11/25/2019	<1.00	<1.00	<1.00	<1.00	5.53	91.46
	2/20/2020	<1.00	<1.00	<1.00	<1.00	7.54	89.45
MW27	11/25/2019	<1.00	<1.00	<1.00	<1.00	5.21	91.70
	2/20/2020	<1.00	<1.00	<1.00	<1.00	7.24	89.67
MW28	11/25/2019	2.66	<1.00	2.73	<1.00	9.38	92.19
	2/20/2020	4.36	<1.00	2.65	<1.00	11.24	90.33
MW29	11/25/2019	<1.00	<1.00	<1.00	<1.00	4.99	91.88
	2/20/2020	<4.00	<4.00	<4.00	<4.00	6.98	89.89
MW30	11/25/2019	<1.00	<1.00	<1.00	<1.00	5.13	91.92



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**BERGER JACK C #1**  
**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		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	2/20/2020	<4.00	<4.00	<4.00	<4.00	7.15	89.90

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.



January 21, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Jack Berger C GU #1**

**Project Number - 014215255**

Attached are your analytical results for KMG - Jack Berger C GU #1 received by Origins Laboratory, Inc. January 15, 2020. This project is associated with Origins project number Y001200-01.

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: 014215255  
Project: KMG - Jack Berger C GU #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB33@2'	Y001200-01	Soil	January 15, 2020 12:40	01/15/2020 16:36
SB33@14'	Y001200-02	Soil	January 15, 2020 14:09	01/15/2020 16:36
SB35@10'	Y001200-03	Soil	January 15, 2020 14:45	01/15/2020 16:36
SB35@20'	Y001200-04	Soil	January 15, 2020 15:15	01/15/2020 16:36
SB34@10'	Y001200-05	Soil	January 15, 2020 15:25	01/15/2020 16:36
SB34@17'	Y001200-06	Soil	January 15, 2020 15:36	01/15/2020 16:36

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.*

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

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

Client: L7E  
 Address: \_\_\_\_\_  
 Telephone Number: \_\_\_\_\_  
 Email Address: km14

Project Manager: Brian Sulzberger  
 Project Name: Jack Berger C #1  
 Project Number: 01415355  
 Samples Collected By: Daniel Thomas

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions					
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	GBTEX	TPH		Oil/Grease				
SB33021	1-15-20	1240	1	X					X					1					
SB33014		1409																	
SB33010		1445																	
SB33020		1515																	
SB34010		1525																	
SB34011		1536																	

  

Relinquished By: <u>[Signature]</u>	Date: <u>1-15-2020</u>	Time: <u>1136</u>	Received By: <u>[Signature]</u>	Date: <u>1/15/20</u>	Time: <u>1636</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	

Temp Received- 8.6

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

*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: 014215255  
Project: KMG - Jack Berger C GU #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y001200

Client: LTE

Client Project ID: Jack Berger C GU #1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 1 / 16 / 2020

Airbill #: N/A

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

☐ Water ☐ Other: \_\_\_\_\_

(Describe)

Cooler Number/Temperature: 1 / 8.6 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Save 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 1/17/20

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

SB33@2'

1/15/2020 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001200-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0A1602	ZZZ	01/16/2020	01/16/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.9 %	70-130			"	"	"

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A1603	TEM	01/16/2020	01/16/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	66.1 %	50-150			"	"	"
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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: 014215255  
Project: KMG - Jack Berger C GU #1

SB33@14'

1/15/2020 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001200-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0A1602	ZZZ	01/16/2020	01/16/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	155	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	115 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"	"	"	"	

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	185	25.0	mg/kg	1	B0A1603	TEM	01/16/2020	01/16/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	66.2 %	50-150	"	"	"	"	"	"	
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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: 014215255  
Project: KMG - Jack Berger C GU #1

SB35@10'

1/15/2020 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001200-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0A1602	ZZZ	01/16/2020	01/16/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.7 %	70-130			"	"	"

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A1603	TEM	01/16/2020	01/16/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	64.1 %	50-150			"	"	"
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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: 014215255  
Project: KMG - Jack Berger C GU #1

SB35@20'

1/15/2020 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001200-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0A1602	ZZZ	01/16/2020	01/17/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	294	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"	"	"	"	

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	363	25.0	mg/kg	1	B0A1603	TEM	01/16/2020	01/16/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	59.0 %	50-150	"	"	"	"	"	"	
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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: 014215255  
Project: KMG - Jack Berger C GU #1

SB34@10'

1/15/2020 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001200-05 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0A1602	ZZZ	01/16/2020	01/16/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130			"	"	"

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A1603	TEM	01/16/2020	01/16/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	57.7 %	50-150			"	"	"
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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: 014215255  
Project: KMG - Jack Berger C GU #1

SB34@17'

1/15/2020 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y001200-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0A1602	ZZZ	01/16/2020	01/16/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			"	"	"

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0A1603	TEM	01/16/2020	01/16/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	67.7 %	50-150			"	"	"
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**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
<b>Batch B0A1602 - EPA 5030 (soil)</b>										
<b>Blank (B0A1602-BLK1)</b>					Prepared: 01/16/2020 Analyzed: 01/16/2020					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**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 B0A1602 - EPA 5030 (soil)

**LCS (B0A1602-BS1)**

Prepared: 01/16/2020 Analyzed: 01/16/2020

Benzene	0.0986	0.00200	mg/kg	0.100		98.6	70-130			
Toluene	0.0988	0.00200	"	0.100		98.8	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		108	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.0	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**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 B0A1602 - EPA 5030 (soil)

Matrix Spike (B0A1602-MS1)		Source: Y001199-01			Prepared: 01/16/2020 Analyzed: 01/16/2020					
Benzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130			
Toluene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
m,p-Xylene	0.258	0.00400	"	0.200	ND	129	70-130			
o-Xylene	0.120	0.00200	"	0.100	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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: 014215255  
Project: KMG - Jack Berger C GU #1

**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 B0A1602 - EPA 5030 (soil)**

Matrix Spike Dup (B0A1602-MSD1)		Source: Y001199-01			Prepared: 01/16/2020 Analyzed: 01/16/2020					
Benzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130	0.820	20	
Toluene	0.116	0.00200	"	0.100	ND	116	70-130	0.942	20	
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	0.548	20	
m,p-Xylene	0.255	0.00400	"	0.200	ND	127	70-130	1.26	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	5.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**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 B0A1603 - EPA 3580										
Blank (B0A1603-BLK1)					Prepared: 01/16/2020 Analyzed: 01/16/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	25.0		62.7	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**Extractable Petroleum Hydrocarbons by 8015D - 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 B0A1603 - EPA 3580

**LCS (B0A1603-BS1)**

Prepared: 01/16/2020 Analyzed: 01/16/2020

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	70-130			
Residual Range Organics (C28-C40)	914	200	"	1000		91.4	70-130			
Surrogate: o-Terphenyl	45		"	50.0		90.3	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**Extractable Petroleum Hydrocarbons by 8015D - 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 B0A1603 - EPA 3580

Matrix Spike (B0A1603-MS1)		Source: Y001199-01			Prepared: 01/16/2020 Analyzed: 01/16/2020					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	895	200	"	1000	ND	89.5	70-130			
Surrogate: o-Terphenyl	42		"	50.0		83.1	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

**Extractable Petroleum Hydrocarbons by 8015D - 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 B0A1603 - EPA 3580**

Matrix Spike Dup (B0A1603-MSD1)		Source: Y001199-01			Prepared: 01/16/2020 Analyzed: 01/16/2020					
Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130	1.88	35	
Residual Range Organics (C28-C40)	831	200	"	1000	ND	83.1	70-130	7.39	35	
Surrogate: o-Terphenyl	40		"	50.0		79.4	50-150			

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

Brian Sulzberger  
Project Number: 014215255  
Project: KMG - Jack Berger C GU #1

### 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.*



February 26, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Berger Jack C GU #1**

**Project Number - 014215255/WO# 889266**

Attached are your analytical results for KMG - Berger Jack C GU #1 received by Origins Laboratory, Inc. February 20, 2020. This project is associated with Origins project number Y002287-01.

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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y002287-01	Water	February 20, 2020 10:32	02/20/2020 17:17
MW02	Y002287-02	Water	February 20, 2020 10:39	02/20/2020 17:17
MW03	Y002287-03	Water	February 20, 2020 10:45	02/20/2020 17:17
MW04	Y002287-04	Water	February 20, 2020 10:52	02/20/2020 17:17
MW05	Y002287-05	Water	February 20, 2020 10:57	02/20/2020 17:17
MW06	Y002287-06	Water	February 20, 2020 11:08	02/20/2020 17:17
MW07	Y002287-07	Water	February 20, 2020 11:15	02/20/2020 17:17
MW08	Y002287-08	Water	February 20, 2020 11:21	02/20/2020 17:17
MW09	Y002287-09	Water	February 20, 2020 11:27	02/20/2020 17:17
MW10	Y002287-10	Water	February 20, 2020 11:33	02/20/2020 17:17
MW11	Y002287-11	Water	February 20, 2020 11:39	02/20/2020 17:17
MW12	Y002287-12	Water	February 20, 2020 11:45	02/20/2020 17:17
MW13	Y002287-13	Water	February 20, 2020 11:51	02/20/2020 17:17
MW14	Y002287-14	Water	February 20, 2020 11:58	02/20/2020 17:17

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y002287-15	Water	February 20, 2020 12:05	02/20/2020 17:17
MW16	Y002287-16	Water	February 20, 2020 12:13	02/20/2020 17:17
MW17	Y002287-17	Water	February 20, 2020 12:30	02/20/2020 17:17
MW18	Y002287-18	Water	February 20, 2020 12:37	02/20/2020 17:17
MW19	Y002287-19	Water	February 20, 2020 12:43	02/20/2020 17:17
MW20	Y002287-20	Water	February 20, 2020 12:48	02/20/2020 17:17
MW21	Y002287-21	Water	February 20, 2020 13:00	02/20/2020 17:17
MW22	Y002287-22	Water	February 20, 2020 13:08	02/20/2020 17:17
MW23	Y002287-23	Water	February 20, 2020 13:15	02/20/2020 17:17
MW24	Y002287-24	Water	February 20, 2020 13:22	02/20/2020 17:17
MW25	Y002287-25	Water	February 20, 2020 13:29	02/20/2020 17:17
MW26	Y002287-26	Water	February 20, 2020 13:36	02/20/2020 17:17
MW27	Y002287-27	Water	February 20, 2020 13:42	02/20/2020 17:17
MW28	Y002287-28	Water	February 20, 2020 13:48	02/20/2020 17:17

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW29	Y002287-29	Water	February 20, 2020 13:57	02/20/2020 17:17
MW30	Y002287-30	Water	February 20, 2020 14:00	02/20/2020 17:17

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

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ORIGINS  
LABORATORY, INC

Client: LT Environmental  
Address: 4600 W 60th Ave 80003  
Project Manager: Brian Sulzberger  
Project Name: Berger Jack C GU #1  
Project Number: 014215255  
Samples Collected By: KM, RJ

Telephone Number: \_\_\_\_\_  
Email Address: Kerr Moore

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other		
MW01	2/20/20	10:32	2										1
MW02		10:39	3										2
MW03		10:45	2										3
MW04		10:52	2										4
MW05		10:57	3										5
MW06		11:08	1										6
MW07		11:15	1										7
MW08		11:21	1										8
MW09		11:27	1										9
MW10		11:33	1										10
Relinquished By: <u>10/16/20</u>	Date: <u>2/20/20</u>	Time: <u>17:17</u>		Received By: <u>[Signature]</u>				Date: <u>2-20-20</u>			Time: <u>12:00</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard	

Date Results Needed

Temp Received: 5.0

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

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Y002287

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ORIGINS  
LABORATORY, INC

Client: LT Environmental  
Address: 4600 W 60th Ave 80003  
Project Manager: Brian Sulzberger  
Project Name: Berger Jack C GU #1  
Project Number: 014215255

Samples Collected By: KMRJ

Telephone Number: \_\_\_\_\_  
Email Address: Keir Magee

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other		
MW11	2/20/20	11:39	1										1
MW12		11:45	2										2
MW13		11:51	3										3
MW14		11:58	3										4
MW15		12:05	3										5
MW16		12:13	3										6
MW17		12:30	2										7
MW18		12:37	3										8
MW19		12:43	3										9
MW20		12:48	2										10
Relinquished By: <u>Keir Magee</u>	Date: <u>2/20/20</u>	Time: <u>17:17</u>		Received By: <u>[Signature]</u>				Date: <u>2-22-20</u>	Time: <u>17:17</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard			

Date Results Needed

5M

Temp Received-

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**ORIGINS**  
LABORATORY, INC

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page 3 of 3

Client: LT Environmental  
Address: 4600 West 60th Ave 80003  
Project Manager: Brian Sulzberger  
Project Name: Berger Jack C GU #1  
Project Number: 014215255  
Samples Collected By: KM, RJ

Telephone Number: \_\_\_\_\_  
Email Address: Kerr Magee

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other			
MW21	2/20/20	13:00	2									BTEX		1
MW22		13:08	3											2
MW23		13:15	3											3
MW24		13:22	3											4
MW25		13:29	2											5
MW26		13:36	2											6
MW27		13:42	2											7
MW28		13:48	2											8
MW29		13:57	1											9
MW30		14:00	2											10
Relinquished By: <i>Kyle Mathis</i>	Date: 2/20/20	Time: 17:17	Received By: <i>[Signature]</i>	Date: 2-20-20	Time: 17:17	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard								
Relinquished By:	Date:	Time:	Received By:	Date:	Time:									

Date Results Needed

Temp Received- 5.0

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y002287

Client: LTE

Client Project ID: Berger Jack C GU #1

Checklist Completed by: JG

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

Date/time completed: 2/21/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.1 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> 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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> /NaOH, ZnAc/NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/24/20

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW01

2/20/2020 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-01 (Water)

### BTEX by EPA 8260D

Benzene	85.2	4.00	ug/L	4	B0B2101	ZZZ	02/21/2020	02/22/2020	
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	4.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	4.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW02

2/20/2020 10:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-02 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	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	100 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW03

2/20/2020 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-03 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	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	99.7 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW04

2/20/2020 10:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-04 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	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	100 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW05

2/20/2020 10:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-05 (Water)

### BTEX by EPA 8260D

Benzene	334	10.0	ug/L	10	B0B2101	ZZZ	02/21/2020	02/22/2020	
Toluene	ND	10.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	10.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	10.0	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"
Surrogate: Toluene-d8	98.6 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW06

2/20/2020 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW07

2/20/2020 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-07 (Water)

### BTEX by EPA 8260D

Benzene	1.84	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW08

2/20/2020 11:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-08 (Water)

### BTEX by EPA 8260D

Benzene	11.1	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	6.38	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	117 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW09

2/20/2020 11:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-09 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	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	97.7 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW10

2/20/2020 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-10 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/22/2020	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	98.0 %	70-130	"	"	"
Surrogate: Toluene-d8	96.9 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW11

2/20/2020 11:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-11 (Water)

### BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0B2101	ZZZ	02/21/2020	02/24/2020	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	99.3 %	70-130	"	"	"
Surrogate: Toluene-d8	96.3 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW12

2/20/2020 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-12 (Water)

### BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0B2101	ZZZ	02/21/2020	02/24/2020	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	99.7 %	70-130	"	"	"
Surrogate: Toluene-d8	95.8 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW13

2/20/2020 11:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-13 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	98.1 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW14

2/20/2020 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-14 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	99.7 %	70-130	"	"	"
Surrogate: Toluene-d8	92.8 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW15

2/20/2020 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-15 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	100 %	70-130	"	"	"
Surrogate: Toluene-d8	96.8 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW16

2/20/2020 12:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-16 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	100 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW17

2/20/2020 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-17 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	97.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW18

2/20/2020 12:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-18 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	99.0 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW19

2/20/2020 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-19 (Water)

### BTEX by EPA 8260D

Benzene	10.8	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW20

2/20/2020 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-20 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2101	ZZZ	02/21/2020	02/24/2020	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	97.5 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW21

2/20/2020 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-21 (Water)

### BTEX by EPA 8260D

Benzene	14.2	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	6.33	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130				"	"	"	
Surrogate: Toluene-d8	118 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130				"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW22

2/20/2020 1:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-22 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	1.74	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"
Surrogate: Toluene-d8	124 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW23

2/20/2020 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-23 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	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	99.8 %	70-130	"	"	"
Surrogate: Toluene-d8	95.3 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW24

2/20/2020 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-24 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	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	99.7 %	70-130	"	"	"
Surrogate: Toluene-d8	96.8 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW25

2/20/2020 1:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-25 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	3.29	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW26

2/20/2020 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-26 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	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	100 %	70-130	"	"	"
Surrogate: Toluene-d8	96.9 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW27

2/20/2020 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-27 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	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	99.4 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW28

2/20/2020 1:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-28 (Water)

### BTEX by EPA 8260D

Benzene	4.36	1.00	ug/L	1	B0B2102	ZZZ	02/21/2020	02/21/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	2.65	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130	
Surrogate: Toluene-d8	116 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW29

2/20/2020 1:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-29 (Water)

### BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0B2102	ZZZ	02/21/2020	02/21/2020	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	97.1 %	70-130	"	"	"
Surrogate: Toluene-d8	97.5 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

## MW30

2/20/2020 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y002287-30 (Water)

### BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0B2102	ZZZ	02/21/2020	02/21/2020	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	98.8 %	70-130	"	"	"
Surrogate: Toluene-d8	97.7 %	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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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
<b>Batch B0B2101 - EPA 5030B (Water)</b>										
<b>Blank (B0B2101-BLK1)</b>					Prepared: 02/21/2020 Analyzed: 02/22/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2101 - EPA 5030B (Water)

**LCS (B0B2101-BS1)**

Prepared: 02/21/2020 Analyzed: 02/22/2020

Benzene	49.7	1.00	ug/L	50.0		99.3	70-130			
Toluene	48.9	1.00	"	50.0		97.8	70-130			
Ethylbenzene	48.3	1.00	"	50.0		96.6	70-130			
m,p-Xylene	95.2	2.00	"	100		95.2	70-130			
o-Xylene	52.2	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2101 - EPA 5030B (Water)**

Matrix Spike (B0B2101-MS1)		Source: Y002287-02			Prepared: 02/21/2020 Analyzed: 02/22/2020					
Benzene	47.8	1.00	ug/L	50.0	ND	95.7	70-130			
Toluene	45.8	1.00	"	50.0	ND	91.6	70-130			
Ethylbenzene	47.0	1.00	"	50.0	ND	93.9	70-130			
m,p-Xylene	91.9	2.00	"	100	ND	91.9	70-130			
o-Xylene	49.2	1.00	"	50.0	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2101 - EPA 5030B (Water)**

Matrix Spike Dup (B0B2101-MSD1)		Source: Y002287-02			Prepared: 02/21/2020 Analyzed: 02/22/2020					
Benzene	48.4	1.00	ug/L	50.0	ND	96.8	70-130	1.21	20	
Toluene	47.2	1.00	"	50.0	ND	94.4	70-130	2.95	20	
Ethylbenzene	48.0	1.00	"	50.0	ND	96.1	70-130	2.27	20	
m,p-Xylene	94.0	2.00	"	100	ND	94.0	70-130	2.30	20	
o-Xylene	49.9	1.00	"	50.0	ND	99.7	70-130	1.27	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2102 - EPA 5030B (Water)**

**Blank (B0B2102-BLK1)**

Prepared: 02/21/2020 Analyzed: 02/21/2020

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	64		"	62.5	103		70-130			
Surrogate: Toluene-d8	59		"	62.5	94.7		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2102 - EPA 5030B (Water)

**LCS (B0B2102-BS1)**

Prepared: 02/21/2020 Analyzed: 02/21/2020

Benzene	42.1	1.00	ug/L	50.0		84.3	70-130			
Toluene	42.4	1.00	"	50.0		84.8	70-130			
Ethylbenzene	43.1	1.00	"	50.0		86.1	70-130			
m,p-Xylene	85.2	2.00	"	100		85.2	70-130			
o-Xylene	45.6	1.00	"	50.0		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

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

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2102 - EPA 5030B (Water)**

Matrix Spike (B0B2102-MS1)		Source: Y002280-01			Prepared: 02/21/2020 Analyzed: 02/21/2020					
Benzene	46.1	1.00	ug/L	50.0	0.430	91.4	70-130			
Toluene	49.3	1.00	"	50.0	ND	98.6	70-130			
Ethylbenzene	57.4	1.00	"	50.0	8.13	98.5	70-130			
m,p-Xylene	140	2.00	"	100	47.0	93.5	70-130			
o-Xylene	51.7	1.00	"	50.0	0.800	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		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: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

**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 B0B2102 - EPA 5030B (Water)**

Matrix Spike Dup (B0B2102-MSD1)		Source: Y002280-01			Prepared: 02/21/2020 Analyzed: 02/21/2020					
Benzene	46.6	1.00	ug/L	50.0	0.430	92.2	70-130	0.950	20	
Toluene	47.1	1.00	"	50.0	ND	94.3	70-130	4.52	20	
Ethylbenzene	56.5	1.00	"	50.0	8.13	96.8	70-130	1.48	20	
m,p-Xylene	137	2.00	"	100	47.0	90.3	70-130	2.27	20	
o-Xylene	50.6	1.00	"	50.0	0.800	99.5	70-130	2.27	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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

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Arvada CO 80003

Brian Sulzberger  
Project Number: 014215255/WO# 88926630  
Project: KMG - Berger Jack C GU #1

### 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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