

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	400	620	210	1.21	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	9.12 †
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	88.1	620	100	0.146	1.77	0.180	0.126	NA	0.221	8.53
TB-B01 @ 11'	02/18/2016	11'	895	1700	2300	<100	2.78	0.078	21.6	12.0	NA	0.112	8.10
TB-E01 @ 7'	02/18/2016	7'	1392	256	1900	170	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	222	1000	<100	<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	262	1300	210	<0.050	<0.050	0.052	<0.050	NA	0.122	8.26
SB04 @ 8'	02/25/2016	8'	897	363	350	<100	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
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	375	150	<100	0.897	0.075	1.97	<0.050	NA	0.118	8.22
SB09 @ 8'	03/01/2016	8'	485	1000	500	150	2.21	<0.050	0.353	<0.050	NA	0.117	8.36



TABLE 1 (Continued)
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				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)
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	1600	661	198	0.062	<0.050	<0.050	<0.050	NA	NA	NA
SB14@10.5'	04/27/2018	10.5'	2106	53.0	2140	740	<0.050	<0.050	<0.050	<0.050	NA	NA	NA
SB14@6'	04/27/2018	6'	1789	16.2	1220	425	0.002	<0.002	0.002	<0.002	NA	NA	NA
SB15@8'	04/27/2018	8'	149	7.85	377	191	<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	2440	2070	812	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	278	413	<100	<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
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	432	71.6	<100	<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



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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)
SB27@12'	11/20/2019	12'	1028	NA	400	117	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

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
JACK BERGER 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		5	560	700	1400		
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
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
	8/2/2019	<1.00	<1.00	<1.00	<1.00	5.87	94.60



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COGCC Allowable Levels		5	560	700	1400		
	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.70	90.77
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
MW04	5/4/2018	53.3	<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
MW05	5/4/2018	1,390	<10.0	<10.0	<10.0	13.15	88.46
	8/23/2018	1,020	<10.0	<10.0	<10.0	8.17	93.44
	11/29/2018	122	<1.00	7.10	<1.00	10.30	91.31
	2/12/2019	1,180	<10.0	<10.0	13.8	12.13	89.48
	5/6/2019	526	<10.0	<10.0	<10.0	13.15	88.46
	8/2/2019	663	<10.0	<10.0	<10.0	8.01	93.60
	11/25/2019	45.6	<4.00	<4.00	<4.00	10.05	91.56
MW06	5/4/2018	961	<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	32.4	<1.00	1.88	<1.00	12.27	88.38
	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
MW07	5/4/2018	12.2	<1.00	<1.00	<1.00	11.71	88.59
	8/23/2018	34.0	<1.00	5.89	<1.00	6.43	93.87



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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		
	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	5.17	<1.00	2.02	<1.00	11.67	88.63
	8/2/2019	16.4	<1.00	4.14	<1.00	5.91	94.39
	11/25/2019	13.4	<1.00	1.52	<1.00	8.58	91.72
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MW08	5/4/2018	92.2	<1.00	1.54	<1.00	12.71	88.79
	8/23/2018	29.4	<1.00	6.61	<1.00	7.90	93.60
	11/29/2018	9.38	<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	12.4	<1.00	6.22	<1.00	12.71	88.79
	8/2/2019	6.95	<1.00	1.26	<1.00	8.05	93.45
	11/25/2019	16.4	<1.00	6.38	<1.00	9.41	92.09
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MW09	6/27/2019	<1.00	<1.00	<1.00	<1.00	13.60	88.56
	8/2/2019	39.6	<1.00	115	<1.00	10.01	92.65
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.78	91.88
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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
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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
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MW12	6/27/2019	11.5	<1.00	1.79	<1.00	12.69	88.81
	8/2/2019	148	<1.00	<1.00	<1.00	9.03	92.98
	11/25/2019	18.1	<1.00	5.02	<1.00	9.91	92.10
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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
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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



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COGCC Allowable Levels		5	560	700	1400		
	11/25/2019	<1.00	<1.00	<1.00	<1.00	10.60	91.62
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
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
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
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
MW19	6/27/2019	40.2	<1.00	1.83	<1.00	13.11	88.89
	8/2/2019	22.5	<1.00	<1.00	<1.00	9.87	92.62
	11/25/2019	117	<4.00	<4.00	<4.00	10.23	92.26
MW20	11/25/2019	<1.00	<1.00	<1.00	<1.00	9.21	92.07
MW21	11/25/2019	1.19	<1.00	3.09	<1.00	9.07	92.02
MW22	11/25/2019	<1.00	<1.00	3.27	<1.00	8.99	91.89
MW23	11/25/2019	1.09	<1.00	<1.00	<1.00	10.81	91.86
MW24	11/25/2019	<1.00	<1.00	<1.00	<1.00	12.24	92.33
MW25	11/25/2019	<1.00	<1.00	3.09	<1.00	11.69	92.44
MW26	11/25/2019	<1.00	<1.00	<1.00	<1.00	5.53	91.46



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COGCC Allowable Levels		5	560	700	1400		
MW27	11/25/2019	<1.00	<1.00	<1.00	<1.00	5.21	91.70
MW28	11/25/2019	2.66	<1.00	2.73	<1.00	9.38	92.19
MW29	11/25/2019	<1.00	<1.00	<1.00	<1.00	4.99	91.88
MW30	11/25/2019	<1.00	<1.00	<1.00	<1.00	5.13	91.92

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.



June 27, 2019

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. June 21, 2019. This project is associated with Origins project number Y906391-01.

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB17@15'	Y906391-01	Soil	June 20, 2019 15:00	06/21/2019 13:38
SB16@9.5'	Y906391-02	Soil	June 21, 2019 9:00	06/21/2019 13:38
SB18@12.5'	Y906391-03	Soil	June 21, 2019 9:15	06/21/2019 13:38
SB19@12'	Y906391-04	Soil	June 21, 2019 9:45	06/21/2019 13:38
SB20@13.5'	Y906391-05	Soil	June 21, 2019 10:00	06/21/2019 13:38
SB21@12'	Y906391-06	Soil	June 21, 2019 11:15	06/21/2019 13:38
SB22@12'	Y906391-07	Soil	June 21, 2019 11:40	06/21/2019 13:38

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1906391

Client: LTE
 Client Project ID: Jack Berger

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 6/21/2019

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

Cooler Number/Temperature: 1 / 12.5 °C _____ / _____ °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 6/24/19

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

SB17@15'
6/20/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 78.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	5.95	5.00	mg/kg	25	B9F2502	JTD	06/25/2019	06/27/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.8 % 70-130 " " "
 Surrogate: Toluene-d8 95.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.10		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.125	0.00500	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

SB16@9.5'

6/21/2019 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	2070	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	
Residual Range Organics (C28-C40)	812	100	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 106 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2440	50.0	mg/kg	250	B9F2502	JTD	06/25/2019	06/27/2019	
Benzene	0.056	0.050	"	25	"	KDK	"	06/26/2019	
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.242	0.050	"	"	"	KDK	"	"	
Xylenes, total	0.212	0.050	"	"	"	KDK	"	"	
Naphthalene	0.426	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 127 % 70-130 " " 06/27/2019

pH in Soil by EPA 9045D

pH	8.28		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.160	0.00500	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

SB18@12.5'
6/21/2019 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	173	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 74.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	128	5.00	mg/kg	25	B9F2502	KDK	06/25/2019	06/26/2019	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.6 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 118 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.98		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.150	0.00500	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

SB19@12'

6/21/2019 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 87.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	0.947	0.200	mg/kg	1	B9F2502	KDK	06/25/2019	06/26/2019	
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.7 % 70-130 " " "
 Surrogate: Toluene-d8 96.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.44		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.104	0.00509	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

SB20@13.5'
6/21/2019 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 79.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9F2502	JTD	06/25/2019	06/27/2019	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "
 Surrogate: Toluene-d8 94.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.52		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0855	0.00500	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

SB21@12'
6/21/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	413	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 79.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	278	50.0	mg/kg	250	B9F2502	KDK	06/25/2019	06/27/2019	
Benzene	ND	0.050	"	25	"	JTD	"	06/27/2019	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " 06/27/2019
 Surrogate: Toluene-d8 95.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0853	0.00509	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

SB22@12'
6/21/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906391-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	229	25.0	mg/kg	1	B9F2503	KDK	06/25/2019	06/27/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 75.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	215	50.0	mg/kg	250	B9F2502	KDK	06/25/2019	06/27/2019	
Benzene	ND	0.050	"	25	"	JTD	"	06/27/2019	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	0.534	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " 06/27/2019
 Surrogate: Toluene-d8 94.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.24		pH Units	1	B9F2410	OLAB	06/24/2019	06/24/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0970	0.00507	mmhos/cm	"	B9F2411	OLAB	06/24/2019	"	
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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

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 B9F2502 - EPA 5030 (soil)

Blank (B9F2502-BLK1)

Prepared: 06/25/2019 Analyzed: 06/25/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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: 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 B9F2502 - EPA 5030 (soil)

Blank (B9F2502-BLK2)

Prepared: 06/25/2019 Analyzed: 06/25/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	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: 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 B9F2502 - EPA 5030 (soil)

LCS (B9F2502-BS1)

Prepared: 06/25/2019 Analyzed: 06/25/2019

Benzene	0.085	0.002	mg/kg	0.100		85.0	70-130			
Toluene	0.082	0.002	"	0.100		82.0	70-130			
Ethylbenzene	0.083	0.002	"	0.100		83.3	70-130			
m,p-Xylene	0.172	0.004	"	0.200		86.1	70-130			
o-Xylene	0.091	0.002	"	0.100		91.1	70-130			
Naphthalene	0.101	0.008	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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: 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 B9F2502 - EPA 5030 (soil)

LCS (B9F2502-BS2)

Prepared: 06/25/2019 Analyzed: 06/25/2019

Benzene	0.086	0.002	mg/kg	0.100		86.1	70-130			
Toluene	0.084	0.002	"	0.100		83.8	70-130			
Ethylbenzene	0.085	0.002	"	0.100		85.2	70-130			
m,p-Xylene	0.176	0.004	"	0.200		87.8	70-130			
o-Xylene	0.092	0.002	"	0.100		92.3	70-130			
Naphthalene	0.081	0.008	"	0.100		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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: 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 B9F2502 - EPA 5030 (soil)

Matrix Spike (B9F2502-MS1)	Source: Y906392-01			Prepared: 06/25/2019 Analyzed: 06/25/2019						
Benzene	0.085	0.002	mg/kg	0.100	ND	84.7	70-130			
Toluene	0.081	0.002	"	0.100	ND	80.7	70-130			
Ethylbenzene	0.082	0.002	"	0.100	ND	82.1	70-130			
m,p-Xylene	0.170	0.004	"	0.200	ND	85.1	70-130			
o-Xylene	0.091	0.002	"	0.100	0.0003	90.7	70-130			
Naphthalene	0.088	0.008	"	0.100	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 B9F2502 - EPA 5030 (soil)

Matrix Spike (B9F2502-MS2)	Source: Y906392-02			Prepared: 06/25/2019 Analyzed: 06/25/2019						
Benzene	0.081	0.002	mg/kg	0.100	ND	81.2	70-130			
Toluene	0.076	0.002	"	0.100	ND	75.6	70-130			
Ethylbenzene	0.074	0.002	"	0.100	ND	74.1	70-130			
m,p-Xylene	0.154	0.004	"	0.200	ND	77.2	70-130			
o-Xylene	0.083	0.002	"	0.100	ND	83.1	70-130			
Naphthalene	0.091	0.008	"	0.100	0.001	90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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
 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 B9F2502 - EPA 5030 (soil)

Matrix Spike Dup (B9F2502-MSD1)	Source: Y906392-01			Prepared: 06/25/2019 Analyzed: 06/25/2019						
Benzene	0.083	0.002	mg/kg	0.100	ND	83.0	70-130	2.08	20	
Toluene	0.079	0.002	"	0.100	ND	78.7	70-130	2.46	20	
Ethylbenzene	0.080	0.002	"	0.100	ND	79.8	70-130	2.84	20	
m,p-Xylene	0.165	0.004	"	0.200	ND	82.7	70-130	2.91	20	
o-Xylene	0.088	0.002	"	0.100	0.0003	88.0	70-130	2.93	20	
Naphthalene	0.091	0.008	"	0.100	ND	91.0	70-130	2.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 B9F2502 - EPA 5030 (soil)

Matrix Spike Dup (B9F2502-MSD2)	Source: Y906392-02			Prepared: 06/25/2019 Analyzed: 06/25/2019						
Benzene	0.083	0.002	mg/kg	0.100	ND	82.9	70-130	2.12	20	
Toluene	0.079	0.002	"	0.100	ND	79.4	70-130	4.93	20	
Ethylbenzene	0.081	0.002	"	0.100	ND	80.5	70-130	8.30	20	
m,p-Xylene	0.167	0.004	"	0.200	ND	83.6	70-130	7.89	20	
o-Xylene	0.089	0.002	"	0.100	ND	88.7	70-130	6.50	20	
Naphthalene	0.089	0.008	"	0.100	0.001	87.6	70-130	3.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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 B9F2503 - EPA 3580										
Blank (B9F2503-BLK1)										
					Prepared: 06/25/2019 Analyzed: 06/27/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	39		"	50.0		77.4	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
Batch B9F2503 - EPA 3580										
Blank (B9F2503-BLK2)										
					Prepared: 06/25/2019 Analyzed: 06/27/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.4	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 B9F2503 - EPA 3580

LCS (B9F2503-BS1)

Prepared: 06/25/2019 Analyzed: 06/27/2019

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	847	200	"	1000		84.7	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.1	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
Batch B9F2503 - EPA 3580										
LCS (B9F2503-BS2)					Prepared: 06/25/2019 Analyzed: 06/27/2019					
Diesel (C10-C28)	955	50.0	mg/kg	1000		95.5	70-130			
Residual Range Organics (C28-C40)	908	200	"	1000		90.8	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.4	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 B9F2503 - EPA 3580

Matrix Spike (B9F2503-MS1)	Source: Y906392-01			Prepared: 06/25/2019 Analyzed: 06/27/2019						
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	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 B9F2503 - EPA 3580

Matrix Spike (B9F2503-MS2)	Source: Y906392-02			Prepared: 06/25/2019 Analyzed: 06/27/2019						
Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	70-130			
Residual Range Organics (C28-C40)	878	200	"	1000	ND	87.8	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.4	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 B9F2503 - EPA 3580

Matrix Spike Dup (B9F2503-MSD1)	Source: Y906392-01		Prepared: 06/25/2019 Analyzed: 06/27/2019							
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	3.41	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	4.02	35	
Surrogate: o-Terphenyl	52		"	50.0		104	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
Batch B9F2503 - EPA 3580										
Matrix Spike Dup (B9F2503-MSD2)					Source: Y906392-02					Prepared: 06/25/2019 Analyzed: 06/27/2019
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	9.24	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	14.0	35	
Surrogate: o-Terphenyl	47		"	50.0		94.5	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

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.



November 21, 2019

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. November 20, 2019. This project is associated with Origins project number Y911351-01.

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
SB23@8.5'	Y911351-01	Soil	November 20, 2019 11:05	11/20/2019 16:30
SB23@13'	Y911351-02	Soil	November 20, 2019 11:15	11/20/2019 16:30
SB24@8.5'	Y911351-03	Soil	November 20, 2019 11:55	11/20/2019 16:30
SB27@12'	Y911351-04	Soil	November 20, 2019 12:05	11/20/2019 16:30
SB27@10.5'	Y911351-05	Soil	November 20, 2019 12:00	11/20/2019 16:30

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y911351
 Checklist Completed by: JG
 Date/time completed: 11/20/2019
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 10.3 °c / _____ °c / _____ °c (Describe)
 Thermometer ID: T003

Client: LTE
 Client Project ID: Berger Jack C GU #1
 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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)

Date/Time Reviewed 11/20/19

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

SB23@8.5'

11/20/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911351-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	50.0	ug/kg	25	B9K2011	ZZZ	11/20/2019	11/21/2019	U
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	50.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	50.0	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	115000	5000	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	138	25.0	mg/kg	1	B9K2012	TEM	11/20/2019	11/20/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	82.2 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB23@13'

11/20/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911351-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	50.0	ug/kg	25	B9K2011	ZZZ	11/20/2019	11/21/2019	U
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	50.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	50.0	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	139000	5000	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	84.3	25.0	mg/kg	1	B9K2012	TEM	11/20/2019	11/20/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	80.9 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB24@8.5'

11/20/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911351-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	50.0	ug/kg	25	B9K2011	ZZZ	11/20/2019	11/21/2019	U
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	50.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	50.0	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	133000	5000	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	94.7	25.0	mg/kg	1	B9K2012	TEM	"	11/20/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	83.9 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB27@12'
11/20/2019 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911351-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	50.0	ug/kg	25	B9K2011	ZZZ	11/20/2019	11/21/2019	U
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	50.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	50.0	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	267000	5000	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	400	25.0	mg/kg	1	B9K2012	TEM	"	11/20/2019	
Residual Range Organics (C28-C40)	117	100	"	"	"	TEM	"	"	

Surrogate: o-Terphenyl	89.2 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB27@10.5'
11/20/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911351-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	50.0	ug/kg	25	B9K2011	ZZZ	11/20/2019	11/20/2019	U
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	50.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	50.0	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5000	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2012	TEM	"	11/20/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	75.8 %	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/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 B9K2011 - EPA 5030 (soil)

Blank (B9K2011-BLK1)

Prepared: 11/20/2019 Analyzed: 11/20/2019

Benzene	ND	2.00	ug/kg							U
Toluene	ND	2.00	"							U
Ethylbenzene	ND	2.00	"							U
Xylenes, total	ND	2.00	"							U
Gasoline Range Hydrocarbons	ND	200	"							U
Surrogate: 1,2-Dichloroethane-d4	120		"	125		99.9	70-130			
Surrogate: Toluene-d8	120		"	125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	120		"	125		99.2	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: 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 B9K2011 - EPA 5030 (soil)

LCS (B9K2011-BS1)

Prepared: 11/20/2019 Analyzed: 11/20/2019

Benzene	98.8	2.00	ug/kg	100		98.8	70-130			
Toluene	96.1	2.00	"	100		96.1	70-130			
Ethylbenzene	100	2.00	"	100		100	70-130			
m,p-Xylene	197	4.00	"	200		98.4	70-130			
o-Xylene	95.2	2.00	"	100		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	130		"	125		100	70-130			
Surrogate: Toluene-d8	120		"	125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	120		"	125		99.4	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: 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 B9K2011 - EPA 5030 (soil)

Matrix Spike (B9K2011-MS1)	Source: Y911334-01			Prepared: 11/20/2019 Analyzed: 11/20/2019						
Benzene	107	2.00	ug/kg	100	ND	107	70-130			
Toluene	101	2.00	"	100	ND	101	70-130			
Ethylbenzene	110	2.00	"	100	4.50	105	70-130			
m,p-Xylene	216	4.00	"	200	5.50	105	70-130			
o-Xylene	103	2.00	"	100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	130		"	125		101	70-130			
Surrogate: Toluene-d8	120		"	125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	130		"	125		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
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Batch B9K2011 - EPA 5030 (soil)

Matrix Spike Dup (B9K2011-MSD1)	Source: Y911334-01			Prepared: 11/20/2019 Analyzed: 11/20/2019						
Benzene	92.2	2.00	ug/kg	100	ND	92.2	70-130	15.0	20	
Toluene	91.7	2.00	"	100	ND	91.7	70-130	10.1	20	
Ethylbenzene	96.3	2.00	"	100	4.50	91.8	70-130	13.0	20	
m,p-Xylene	190	4.00	"	200	5.50	92.2	70-130	12.8	20	
o-Xylene	91.8	2.00	"	100	ND	91.8	70-130	11.2	20	
Surrogate: 1,2-Dichloroethane-d4	120		"	125		99.3	70-130			
Surrogate: Toluene-d8	120		"	125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	120		"	125		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

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 B9K2012 - EPA 3580										
Blank (B9K2012-BLK1)										
					Prepared: 11/20/2019 Analyzed: 11/20/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		84.1	50-150			

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

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 B9K2012 - EPA 3580

LCS (B9K2012-BS1)

Prepared: 11/20/2019 Analyzed: 11/20/2019

Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	58		"	50.0		115	50-150			

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/WO# 88926630
 Project: KMG - Berger Jack 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 B9K2012 - EPA 3580

Matrix Spike (B9K2012-MS1)	Source: Y911334-02			Prepared: 11/20/2019 Analyzed: 11/20/2019						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	57		"	50.0		113	50-150			

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

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 B9K2012 - EPA 3580

Matrix Spike Dup (B9K2012-MSD1)	Source: Y911334-02		Prepared: 11/20/2019 Analyzed: 11/20/2019							
Diesel (C10-C28)	895	50.0	mg/kg	1000	ND	89.5	70-130	15.2	35	
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130	20.0	35	
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

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

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.



November 25, 2019

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. November 20, 2019. This project is associated with Origins project number Y911363-01.

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
SB25@8.5'	Y911363-01	Soil	November 20, 2019 12:10	11/20/2019 16:30
SB25@14'	Y911363-02	Soil	November 20, 2019 12:15	11/20/2019 16:30
SB26@10.5'	Y911363-03	Soil	November 20, 2019 13:30	11/20/2019 16:30
SB28@8'	Y911363-04	Soil	November 20, 2019 15:00	11/20/2019 16:30

Origins Laboratory, Inc.



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

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

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

www.originslaboratory.com
 page 1 of 1

9411363

Client: LTE

Address: 4600 W 60th ave

Telephone Number: _____

Email Address: Group method

Project Manager: Don't Steinback

Project Name: Berger Jack C #1

Project Number: 014215255

Samples Collected By: D. Steinback

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other			
5825 @ 8.5'	11/20/19	12:10	2	X				X						1
5825 @ 14'	11/20/19	12:15	1											2
5826 @ 10.5'	11/20/19	1:30	1											3
5828 @ 8'	11/20/19	1:50	1											4
														5
														6
														7
														8
														9
														10

Relinquished By: [Signature] **Date:** 11/20/19 **Time:** 1635

Received By: [Signature] **Date:** 11/20/19 **Time:** 1630

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

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

Date Results Needed: 10.7

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/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: 4911363 Client: LTE
 Client Project ID: KMG - Berger Jack
 Checklist Completed by: JL Shipped Via: 4D
 Date/time completed: 4/20/19 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1 / 10.3 °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 ⁽¹⁾ ?		X		sampled same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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 4/21/19

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

SB25@8.5'

11/20/2019 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911363-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9K2107	KDK	11/21/2019	11/22/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	432	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	180 %	70-130			"	"	"	"	S-04

DRO/ORO by EPA 8015D

Diesel (C10-C28)	71.6	25.0	mg/kg	1	B9K2109	TEM	11/21/2019	11/22/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	87.7 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB25@14'

11/20/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911363-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9K2107	KDK	11/21/2019	11/22/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.0570	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	248	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	136 %	70-130			"	"	"	" S-04	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	118	25.0	mg/kg	1	B9K2109	TEM	11/21/2019	11/22/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	91.3 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB26@10.5'

11/20/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911363-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9K2107	KDK	11/21/2019	11/22/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2109	TEM	11/21/2019	11/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	84.0 %	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

SB28@8'

11/20/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911363-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9K2107	KDK	11/21/2019	11/22/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2109	TEM	11/21/2019	11/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	85.9 %	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/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 B9K2107 - EPA 5030 (soil)

Blank (B9K2107-BLK1)

Prepared: 11/21/2019 Analyzed: 11/21/2019

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		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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: 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 B9K2107 - EPA 5030 (soil)

LCS (B9K2107-BS1)

Prepared: 11/21/2019 Analyzed: 11/21/2019

Benzene	0.0973	0.00200	mg/kg	0.100		97.3	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
m,p-Xylene	0.234	0.00400	"	0.200		117	70-130			
o-Xylene	0.0998	0.00200	"	0.100		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

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 B9K2107 - EPA 5030 (soil)

Matrix Spike (B9K2107-MS1)	Source: Y911358-02			Prepared: 11/21/2019 Analyzed: 11/21/2019						
Benzene	0.173	0.00200	mg/kg	0.100	0.0486	124	70-130			
Toluene	0.0886	0.00200	"	0.100	ND	88.6	70-130			
Ethylbenzene	0.0947	0.00200	"	0.100	ND	94.7	70-130			
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.0	70-130			
o-Xylene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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: 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 B9K2107 - EPA 5030 (soil)

Matrix Spike Dup (B9K2107-MSD1)	Source: Y911358-02			Prepared: 11/21/2019 Analyzed: 11/21/2019						
Benzene	0.180	0.00200	mg/kg	0.100	0.0486	132	70-130	4.32	20	QM-07
Toluene	0.0888	0.00200	"	0.100	ND	88.8	70-130	0.248	20	
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	1.47	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	95.8	70-130	2.26	20	
o-Xylene	0.0831	0.00200	"	0.100	ND	83.1	70-130	1.74	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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: 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
Batch B9K2109 - EPA 3580										
Blank (B9K2109-BLK1)										
					Prepared: 11/21/2019 Analyzed: 11/21/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		89.1	50-150			

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/WO# 88926630
 Project: KMG - Berger Jack 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 B9K2109 - EPA 3580

LCS (B9K2109-BS1)

Prepared: 11/21/2019 Analyzed: 11/21/2019

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.4	50-150			

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/WO# 88926630
 Project: KMG - Berger Jack 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 B9K2109 - EPA 3580

Matrix Spike (B9K2109-MS1)	Source: Y911358-02		Prepared: 11/21/2019 Analyzed: 11/21/2019							
Diesel (C10-C28)	1210	50.0	mg/kg	1000	ND	121	70-130			
Residual Range Organics (C28-C40)	1210	200	"	1000	ND	121	70-130			
Surrogate: o-Terphenyl	54		"	50.0		107	50-150			

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

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 B9K2109 - EPA 3580

Matrix Spike Dup (B9K2109-MSD1)	Source: Y911358-02		Prepared: 11/21/2019 Analyzed: 11/22/2019							
Diesel (C10-C28)	1240	50.0	mg/kg	1000	ND	124	70-130	2.77	35	
Residual Range Organics (C28-C40)	1290	200	"	1000	ND	129	70-130	5.83	35	
<i>Surrogate: o-Terphenyl</i>	55		"	50.0		110	50-150			

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

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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 02, 2019

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. November 22, 2019. This project is associated with Origins project number Y911407-01.

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
SB30@10'	Y911407-01	Soil	November 22, 2019 10:05	11/22/2019 13:00
SB29@8'	Y911407-02	Soil	November 22, 2019 10:35	11/22/2019 13:00
SB29@12'	Y911407-03	Soil	November 22, 2019 10:42	11/22/2019 13:00
SB31@3.5'	Y911407-04	Soil	November 22, 2019 11:51	11/22/2019 13:00
SB32@6'	Y911407-05	Soil	November 22, 2019 11:30	11/22/2019 13:00

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

www.originslaboratory.com

9911407

page 1 of 1



Client: LT E
 Address: 4600 W 60th Ave
Arvada, CO 80003
 Telephone Number: 303 433 9788
 Email Address: llmk@originslab.com

Project Manager: Brian Sulzberger
 Project Name: Jack Berger C#1
 Project Number: 014215255
 Samples Collected By: Daniel Thomas

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampler #	Other	Other	
SB30E 10'	11-22-19	1005	1	X				X				X	1
SB31E 8'		1035	1	X				X				X	2
SB32E 12'		1042	1	X				X				X	3
SB31E 35'		1151	1	X				X				X	4
SB32E 6'		1150	1	X				X				X	5
													6
													7
													8
													9
													10
Relinquished By: <u>[Signature]</u>	Date: 11-22-19	Time: 1300	Received By: <u>[Signature]</u>	Date: 11/21/19	Time: 1300	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Date Results Needed

4.9

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

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

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

Sample Receipt Checklist

Origins Work Order: Y911407 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: 11/22/2019 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 4.9 °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"/>			
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 Na ₂ SO 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) _____ Date/Time Reviewed 11/25/19

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

SB30@10'

11/22/2019 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911407-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9K2201	KDK	11/22/2019	11/27/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2210	KDK	11/22/2019	11/25/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	75.7 %	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

SB29@8'

11/22/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911407-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9K2201	KDK	11/22/2019	11/27/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	1.25	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2210	KDK	11/22/2019	11/26/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	87.7 %	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

SB29@12'
11/22/2019 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911407-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9K2201	KDK	11/22/2019	11/27/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.0500	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	142	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	129 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	243	25.0	mg/kg	1	B9K2210	KDK	11/22/2019	11/27/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	106 %	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

SB31@3.5'

11/22/2019 11:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911407-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9K2201	KDK	11/22/2019	11/27/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2210	KDK	11/22/2019	11/26/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	101 %	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

SB32@6'

11/22/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911407-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9K2201	KDK	11/22/2019	11/27/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130				"	"	"	
Surrogate: Toluene-d8	100 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130				"	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9K2210	KDK	11/22/2019	11/26/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	103 %	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

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 B9K2201 - EPA 5030 (soil)

Blank (B9K2201-BLK1)

Prepared: 11/22/2019 Analyzed: 11/22/2019

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		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	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: 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 B9K2201 - EPA 5030 (soil)

LCS (B9K2201-BS1)

Prepared: 11/22/2019 Analyzed: 11/22/2019

Benzene	0.0953	0.00200	mg/kg	0.100		95.3	70-130			
Toluene	0.0986	0.00200	"	0.100		98.6	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
o-Xylene	0.0879	0.00200	"	0.100		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	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: 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 B9K2201 - EPA 5030 (soil)

Matrix Spike (B9K2201-MS1)	Source: Y911387-01			Prepared: 11/22/2019 Analyzed: 11/26/2019						
Benzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
Toluene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.211	0.00400	"	0.200	ND	106	70-130			
o-Xylene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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: 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 B9K2201 - EPA 5030 (soil)

Matrix Spike Dup (B9K2201-MSD1)	Source: Y911387-01			Prepared: 11/22/2019 Analyzed: 11/26/2019						
Benzene	0.0965	0.00200	mg/kg	0.100	ND	96.5	70-130	4.20	20	
Toluene	0.0938	0.00200	"	0.100	ND	93.8	70-130	5.59	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	6.87	20	
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.7	70-130	7.70	20	
o-Xylene	0.0905	0.00200	"	0.100	ND	90.5	70-130	5.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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
 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 B9K2210 - EPA 3580										
Blank (B9K2210-BLK1)										
					Prepared: 11/22/2019 Analyzed: 11/25/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		83.8	50-150			

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

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 B9K2210 - EPA 3580

LCS (B9K2210-BS1)

Prepared: 11/22/2019 Analyzed: 11/25/2019

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.5	50-150			

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

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 B9K2210 - EPA 3580

Matrix Spike (B9K2210-MS1)	Source: Y911407-01			Prepared: 11/22/2019 Analyzed: 11/25/2019						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	45		"	50.0		90.4	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
Batch B9K2210 - EPA 3580										
Matrix Spike Dup (B9K2210-MSD1)		Source: Y911407-01			Prepared: 11/22/2019 Analyzed: 11/25/2019					
Diesel (C10-C28)	1210	50.0	mg/kg	1000	ND	121	70-130	10.1	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	11.9	35	
Surrogate: o-Terphenyl	52		"	50.0		105	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

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



February 15, 2019

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 12, 2019. This project is associated with Origins project number Y902152-01.

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	Y902152-01	Water	February 12, 2019 11:45	02/12/2019 15:20
MW02	Y902152-02	Water	February 12, 2019 11:55	02/12/2019 15:20
MW03	Y902152-03	Water	February 12, 2019 11:05	02/12/2019 15:20
MW04	Y902152-04	Water	February 12, 2019 10:55	02/12/2019 15:20
MW05	Y902152-05	Water	February 12, 2019 11:25	02/12/2019 15:20
MW06	Y902152-06	Water	February 12, 2019 11:35	02/12/2019 15:20
MW07	Y902152-07	Water	February 12, 2019 10:45	02/12/2019 15:20
MW08	Y902152-08	Water	February 12, 2019 11:15	02/12/2019 15:20

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



11
 y902152

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
 Project: KMG - Berger Jack C GU #1 Project Number: 014215255/WO# 88926630

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	2/12/19	11:45	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
02-001	MW02	Water	2/12/19	11:55	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
03-001	MW03	Water	2/12/19	11:05	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
04-001	MW04	Water	2/12/19	16:55	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
05-001	MW05	Water	2/12/19	14:25	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
06-001	MW06	Water	2/12/19	11:35	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
07-001	MW07	Water	2/12/19	16:45	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C
08-001	MW08	Water	2/12/19	11:15	DB	40mL Amber VOA Vial - PK	3	BTEX by EPA 8260C

Retrieved By: *[Signature]* Date / Time: 2/12/19 15:20
 Relinquished By: *[Signature]* Date / Time: 2-12-19 15:20
 Relinquished By: _____ Date / Time: _____
 Received By: _____ Date / Time: _____

Temperature on Receipt: 11.9
 Turn Around Time: 24-hr 72-hr Standard
 Same Day:

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/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: y902152

Client: LTE

Client Project ID: KMG - Berger Jack C GU #1

Checklist Completed by: JG

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

Date/time completed: 2/13/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 11.9 °C 1 / 1 °C 1 / 1 °C 1 / 1 °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 2/14/19

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

MW01

2/12/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-01 (Water)

BTEX by EPA 8260C

Benzene	237	4.00	ug/L	4	B9B1303	KDK	02/13/2019	02/13/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

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

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

MW02

2/12/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-02 (Water)

BTEX by EPA 8260C

Benzene	5.98	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

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

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

MW03

2/12/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	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	98.3 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

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

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

MW04

2/12/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	1.01	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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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

2/12/2019 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-05 (Water)

BTEX by EPA 8260C

Benzene	1180	10.0	ug/L	10	B9B1303	KDK	02/13/2019	02/13/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	10.0	"	"	"	KDK	"	"	U
Xylenes, total	13.8	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114			"	"	"	"	

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

2/12/2019 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-06 (Water)

BTEX by EPA 8260C

Benzene	1.87	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/14/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	7.14	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.0 %	84-121			"	"		02/13/2019	
Surrogate: Toluene-d8	97.1 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"		"	

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

MW07

2/12/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-07 (Water)

BTEX by EPA 8260C

Benzene	1.48	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/13/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	2.09	1.00	"	"	"	KDK	"	"	
Xylenes, total	10.5	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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

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

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

MW08

2/12/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902152-08 (Water)

BTEX by EPA 8260C

Benzene	2.95	1.00	ug/L	1	B9B1303	KDK	02/13/2019	02/14/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	7.93	1.00	"	"	"	KDK	"	"	
Xylenes, total	13.8	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	24.5 %	84-121			"	"		"	S-DUP, U
Surrogate: Toluene-d8	107 %	85-115			"	"		02/14/2019	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"		"	

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 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 B9B1303 - EPA 5030B (Water)

Blank (B9B1303-BLK1)

Prepared: 02/13/2019 Analyzed: 02/13/2019

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	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

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 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 B9B1303 - EPA 5030B (Water)

Blank (B9B1303-BLK2)

Prepared: 02/13/2019 Analyzed: 02/13/2019

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	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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 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 B9B1303 - EPA 5030B (Water)

LCS (B9B1303-BS1)

Prepared: 02/13/2019 Analyzed: 02/13/2019

Benzene	48.6	1.00	ug/L	50.0		97.1	73.3-129			
Toluene	48.2	1.00	"	50.0		96.5	76.2-123			
Ethylbenzene	46.9	1.00	"	50.0		93.8	73.6-130			
m,p-Xylene	94.0	2.00	"	100		94.0	76.1-126			
o-Xylene	46.9	1.00	"	50.0		93.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.6	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

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 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 B9B1303 - EPA 5030B (Water)

LCS (B9B1303-BS2)

Prepared: 02/13/2019 Analyzed: 02/13/2019

Benzene	52.4	1.00	ug/L	50.0		105	73.3-129			
Toluene	53.4	1.00	"	50.0		107	76.2-123			
Ethylbenzene	51.3	1.00	"	50.0		103	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	51.8	1.00	"	50.0		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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 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 B9B1303 - EPA 5030B (Water)

Matrix Spike (B9B1303-MS1)	Source: Y902150-02			Prepared: 02/13/2019 Analyzed: 02/13/2019						
Benzene	55.6	1.00	ug/L	50.0	ND	111	74-130			
Toluene	55.9	1.00	"	50.0	ND	112	73-131			
Ethylbenzene	52.5	1.00	"	50.0	ND	105	76-132			
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	52.3	1.00	"	50.0	ND	105	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	84-114			

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 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 B9B1303 - EPA 5030B (Water)

Matrix Spike (B9B1303-MS2)	Source: Y902150-03			Prepared: 02/13/2019 Analyzed: 02/13/2019						
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130			
Toluene	54.6	1.00	"	50.0	ND	109	73-131			
Ethylbenzene	52.1	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	52.0	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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 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 B9B1303 - EPA 5030B (Water)

Matrix Spike Dup (B9B1303-MSD1)	Source: Y902150-02			Prepared: 02/13/2019 Analyzed: 02/13/2019						
Benzene	54.8	1.00	ug/L	50.0	ND	110	74-130	1.38	20	
Toluene	55.6	1.00	"	50.0	ND	111	73-131	0.413	20	
Ethylbenzene	52.1	1.00	"	50.0	ND	104	76-132	0.860	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	0.935	20	
o-Xylene	52.1	1.00	"	50.0	ND	104	74-131	0.249	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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 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 B9B1303 - EPA 5030B (Water)

Matrix Spike Dup (B9B1303-MSD2)	Source: Y902150-03			Prepared: 02/13/2019 Analyzed: 02/13/2019						
Benzene	54.2	1.00	ug/L	50.0	ND	108	74-130	0.0185	20	
Toluene	54.6	1.00	"	50.0	ND	109	73-131	0.0916	20	
Ethylbenzene	51.0	1.00	"	50.0	ND	102	76-132	2.25	20	
m,p-Xylene	103	2.00	"	100	ND	103	69-139	1.90	20	
o-Xylene	51.0	1.00	"	50.0	ND	102	74-131	1.92	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

May 08, 2019

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. May 06, 2019. This project is associated with Origins project number Y905065-01.

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y905065-01	Water	May 6, 2019 11:25	05/06/2019 14:54
MW02	Y905065-02	Water	May 6, 2019 11:33	05/06/2019 14:54
MW03	Y905065-03	Water	May 6, 2019 11:40	05/06/2019 14:54
MW04	Y905065-04	Water	May 6, 2019 11:48	05/06/2019 14:54
MW05	Y905065-05	Water	May 6, 2019 11:55	05/06/2019 14:54
MW06	Y905065-06	Water	May 6, 2019 12:04	05/06/2019 14:54
MW07	Y905065-07	Water	May 6, 2019 12:12	05/06/2019 14:54
MW08	Y905065-08	Water	May 6, 2019 12:20	05/06/2019 14:54

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



1905065

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

Client:	LT Environmental, Inc.		Project Manager:	Brian Sulzberger		Analyses
Project:	KMG - Berger Jack C GU #1		Project Number:	014215255/WO# 88926630		
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty
01-001	MW01	Water	05/06/19	1105	40mL Amber VOA Vial - HC	3
02-001	MW02	Water		1133	40mL Amber VOA Vial - HC	3
03-001	MW03	Water		1140	40mL Amber VOA Vial - HC	3
04-001	MW04	Water		1148	40mL Amber VOA Vial - HC	3
05-001	MW05	Water		1155	40mL Amber VOA Vial - HC	3
06-001	MW06	Water		1204	40mL Amber VOA Vial - HC	3
07-001	MW07	Water		1212	40mL Amber VOA Vial - HC	3
08-001	MW08	Water		1220	40mL Amber VOA Vial - HC	3

Temperature on Receipt: 55
 Turn Around Time:
 Same Day
 72-hr
 24-hr
 Standard
 48-hr

Relinquished By: [Signature] Date / Time: 5/6/19 1454
 Received By: [Signature] Date / Time: 5/6/19 1454

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/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: Y 905065

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: 5/6/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.5 °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"/>	<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) JG

Date/Time Reviewed 5/7/19

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

MW01

5/6/2019 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-01 (Water)

BTEX by EPA 8260D

Benzene	295	4.00	ug/L	4	B9E0701	KDK	05/07/2019	05/07/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		"	
Surrogate: Toluene-d8	106 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW02

5/6/2019 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0701	KDK	05/07/2019	05/07/2019	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	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	116 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW03

5/6/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0701	KDK	05/07/2019	05/07/2019	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 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW04

5/6/2019 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0701	KDK	05/07/2019	05/07/2019	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	99.9 %	70-130				"	"	"	
Surrogate: Toluene-d8	105 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW05

5/6/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-05 (Water)

BTEX by EPA 8260D

Benzene	526	10.0	ug/L	10	B9E0701	KDK	05/07/2019	05/07/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	10.0	"	"	"	KDK	"	"	U
Xylenes, total	ND	10.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	119 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.6 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW06

5/6/2019 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-06 (Water)

BTEX by EPA 8260D

Benzene	32.4	1.00	ug/L	1	B9E0701	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.88	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.3 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW07

5/6/2019 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-07 (Water)

BTEX by EPA 8260D

Benzene	5.17	1.00	ug/L	1	B9E0701	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	2.02	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW08

5/6/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905065-08 (Water)

BTEX by EPA 8260D

Benzene	12.4	1.00	ug/L	1	B9E0701	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.22	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	111 %	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: 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 B9E0701 - EPA 5030B (Water)

Blank (B9E0701-BLK1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

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	67		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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: 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 B9E0701 - EPA 5030B (Water)

LCS (B9E0701-BS1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Benzene	49.7	1.00	ug/L	50.0		99.3	70-130			
Toluene	53.9	1.00	"	50.0		108	70-130			
Ethylbenzene	47.7	1.00	"	50.0		95.5	70-130			
m,p-Xylene	94.1	2.00	"	100		94.1	70-130			
o-Xylene	46.2	1.00	"	50.0		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	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.

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 B9E0701 - EPA 5030B (Water)

Matrix Spike (B9E0701-MS1)	Source: Y905065-02			Prepared: 05/07/2019 Analyzed: 05/07/2019						
Benzene	41.6	1.00	ug/L	50.0	0.320	82.6	70-130			
Toluene	37.6	1.00	"	50.0	ND	75.2	70-130			
Ethylbenzene	42.4	1.00	"	50.0	0.080	84.6	70-130			
m,p-Xylene	83.4	2.00	"	100	0.250	83.2	70-130			
o-Xylene	41.9	1.00	"	50.0	ND	83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	55		"	62.5		88.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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: 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 B9E0701 - EPA 5030B (Water)

Matrix Spike Dup (B9E0701-MSD1)	Source: Y905065-02			Prepared: 05/07/2019 Analyzed: 05/07/2019						
Benzene	54.0	1.00	ug/L	50.0	0.320	107	70-130	26.0	20	QR-02
Toluene	56.2	1.00	"	50.0	ND	112	70-130	39.7	20	QR-02
Ethylbenzene	49.6	1.00	"	50.0	0.080	99.0	70-130	15.6	20	
m,p-Xylene	99.5	2.00	"	100	0.250	99.2	70-130	17.6	20	
o-Xylene	47.8	1.00	"	50.0	ND	95.6	70-130	13.2	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.7	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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: 014215255/WO# 88926630
Project: KMG - Berger Jack C GU #1

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

July 05, 2019

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. June 27, 2019. This project is associated with Origins project number Y906492-01.

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW09	Y906492-01	Water	June 27, 2019 15:01	06/27/2019 17:09
MW10	Y906492-02	Water	June 27, 2019 15:06	06/27/2019 17:09
MW11	Y906492-03	Water	June 27, 2019 15:12	06/27/2019 17:09
MW12	Y906492-04	Water	June 27, 2019 15:19	06/27/2019 17:09
MW13	Y906492-05	Water	June 27, 2019 15:24	06/27/2019 17:09
MW14	Y906492-06	Water	June 27, 2019 15:30	06/27/2019 17:09
MW15	Y906492-07	Water	June 27, 2019 15:36	06/27/2019 17:09
MW16	Y906492-08	Water	June 27, 2019 15:41	06/27/2019 17:09
MW17	Y906492-09	Water	June 27, 2019 15:48	06/27/2019 17:09
MW18	Y906492-10	Water	June 27, 2019 15:54	06/27/2019 17:09
MW19	Y906492-11	Water	June 27, 2019 16:00	06/27/2019 17:09

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/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: Y900402

Client: LTE

Client Project ID: KMG - Berger Steg Jack

Checklist Completed by: JP

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

Date/time completed: 6/28/19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 33.8 °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 ^{(1)?}		X		<u>sampled same day</u>
Is there ice present (document if blue ice is used)	Y			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		Y		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		Y		
Were all samples received intact ^{(1)?}	Y			
Was adequate sample volume provided ^{(1)?}	X			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		X		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	Y			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	Y			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	X			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		Y		
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)			X	
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 7-1-19

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

MW09

6/27/2019 3:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	98.9 %	70-130			"	"		"	
Surrogate: Toluene-d8	103 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW10

6/27/2019 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW11

6/27/2019 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	103 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW12

6/27/2019 3:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-04 (Water)

BTEX by EPA 8260D

Benzene	11.5	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.79	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW13

6/27/2019 3:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	98.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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

6/27/2019 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	103 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW15

6/27/2019 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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.

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

6/27/2019 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW17

6/27/2019 3:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW18

6/27/2019 3:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	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	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	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

MW19

6/27/2019 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906492-11 (Water)

BTEX by EPA 8260D

Benzene	40.2	1.00	ug/L	1	B9G0303	KDK	07/03/2019	07/03/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.83	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	113 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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: 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 B9G0303 - EPA 5030B (Water)

Blank (B9G0303-BLK1)

Prepared: 07/03/2019 Analyzed: 07/03/2019

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	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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.

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 B9G0303 - EPA 5030B (Water)

LCS (B9G0303-BS1)

Prepared: 07/03/2019 Analyzed: 07/03/2019

Benzene	56.1	1.00	ug/L	50.0		112	70-130			
Toluene	58.7	1.00	"	50.0		117	70-130			
Ethylbenzene	51.9	1.00	"	50.0		104	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	49.8	1.00	"	50.0		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 B9G0303 - EPA 5030B (Water)

Matrix Spike (B9G0303-MS1)	Source: Y906505-01			Prepared: 07/03/2019 Analyzed: 07/03/2019						
Benzene	61.0	1.00	ug/L	50.0	ND	122	70-130			
Toluene	62.9	1.00	"	50.0	ND	126	70-130			
Ethylbenzene	55.6	1.00	"	50.0	0.150	111	70-130			
m,p-Xylene	110	2.00	"	100	ND	110	70-130			
o-Xylene	52.9	1.00	"	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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: 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 B9G0303 - EPA 5030B (Water)

Matrix Spike Dup (B9G0303-MSD1)	Source: Y906505-01			Prepared: 07/03/2019 Analyzed: 07/03/2019						
Benzene	59.8	1.00	ug/L	50.0	ND	120	70-130	2.00	20	
Toluene	62.0	1.00	"	50.0	ND	124	70-130	1.46	20	
Ethylbenzene	55.6	1.00	"	50.0	0.150	111	70-130	0.0539	20	
m,p-Xylene	110	2.00	"	100	ND	110	70-130	0.0725	20	
o-Xylene	52.9	1.00	"	50.0	ND	106	70-130	0.00	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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

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.

Noelle Doyle Mathis, President

August 09, 2019

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. August 02, 2019. This project is associated with Origins project number Y908046-01.

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y908046-01	Water	August 2, 2019 11:15	08/02/2019 15:16
MW02	Y908046-02	Water	August 2, 2019 11:21	08/02/2019 15:16
MW03	Y908046-03	Water	August 2, 2019 11:28	08/02/2019 15:16
MW04	Y908046-04	Water	August 2, 2019 11:35	08/02/2019 15:16
MW05	Y908046-05	Water	August 2, 2019 11:40	08/02/2019 15:16
MW06	Y908046-06	Water	August 2, 2019 11:46	08/02/2019 15:16
MW07	Y908046-07	Water	August 2, 2019 11:53	08/02/2019 15:16
MW08	Y908046-08	Water	August 2, 2019 12:01	08/02/2019 15:16
MW09	Y908046-09	Water	August 2, 2019 12:08	08/02/2019 15:16
MW10	Y908046-10	Water	August 2, 2019 12:14	08/02/2019 15:16
MW11	Y908046-11	Water	August 2, 2019 12:20	08/02/2019 15:16
MW12	Y908046-12	Water	August 2, 2019 12:26	08/02/2019 15:16
MW13	Y908046-13	Water	August 2, 2019 12:33	08/02/2019 15:16
MW14	Y908046-14	Water	August 2, 2019 12:39	08/02/2019 15:16

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y908046-15	Water	August 2, 2019 12:44	08/02/2019 15:16
MW16	Y908046-16	Water	August 2, 2019 12:50	08/02/2019 15:16
MW17	Y908046-17	Water	August 2, 2019 12:58	08/02/2019 15:16
MW18	Y908046-18	Water	August 2, 2019 13:04	08/02/2019 15:16
MW19	Y908046-19	Water	August 2, 2019 13:10	08/02/2019 15:16

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

ORIGINS
 LABORATORY, INC

1908046

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
 Project: KMG - Berger Jack C GU #1 Project Number: 014215255/WO# 88926630

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	8/2/19	11:15	CM	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MW02	Water		11:21		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MW03	Water		11:28		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MW04	Water		11:35		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MW05	Water		11:40		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MW06	Water		11:46		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
07-001	MW07	Water		11:53		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
08-001	MW08	Water		12:01		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
09-001	MW09	Water		12:08		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
10-001	MW10	Water		12:14		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
11-001	MW11	Water		12:20		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 8/2/19 15:16
 Received By: *[Signature]* Date / Time: 8/2/19 15:16
 Temperature on Receipt: 5.8
 Turn Around Time: 72-hr Standard
 24-hr

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



Y908046

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

12-001	MM12	Water	8/2/14	12:26	CM	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
13-001	MM13	Water		12:33		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
14-001	MM14	Water		12:39		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
15-001	MM15	Water		12:44		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
16-001	MM16	Water		12:50		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
17-001	MM17	Water		12:58		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
18-001	MM18	Water		1:04		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
19-001	MM19	Water		1:16		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 5.8
 Turn Around Time: 24-hr 48-hr 72-hr Standard

Relinquished By: Date / Time: 8/2/14 15:10

Relinquished By: Chris McGraw Date / Time: 8/19 3:10
 Received By: _____ Date / Time: _____

Origins Laboratory, Inc.

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

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

Brian Sulzberger
 Project Number: 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: 7906046

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: 8/5/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 5.8 °C 1 °C 1 °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 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 analytes 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"/>	
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 8/16/19

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

MW01

8/2/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9H0604	KDK	08/06/2019	08/07/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW02
8/2/2019 11:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	97.9 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW03

8/2/2019 11:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW04

8/2/2019 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	84.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW05

8/2/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-05 (Water)

BTEX by EPA 8260D

Benzene	663	10.0	ug/L	10	B9H0604	KDK	08/06/2019	08/07/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	10.0	"	"	"	KDK	"	"	U
Xylenes, total	ND	10.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		"	
Surrogate: Toluene-d8	102 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.7 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW06

8/2/2019 11:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	102 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW07

8/2/2019 11:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-07 (Water)

BTEX by EPA 8260D

Benzene	16.4	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.14	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW08
8/2/2019 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-08 (Water)

BTEX by EPA 8260D

Benzene	6.95	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.26	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW09

8/2/2019 12:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-09 (Water)

BTEX by EPA 8260D

Benzene	39.6	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	115	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW10
8/2/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW11
8/2/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	99.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW12
8/2/2019 12:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-12 (Water)

BTEX by EPA 8260D

Benzene	148	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW13
8/2/2019 12:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW14
8/2/2019 12:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	99.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW15
8/2/2019 12:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	99.3 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW16
8/2/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW17
8/2/2019 12:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW18

8/2/2019 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-18 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	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	97.0 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW19

8/2/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908046-19 (Water)

BTEX by EPA 8260D

Benzene	22.5	1.00	ug/L	1	B9H0604	KDK	08/06/2019	08/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	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: 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 B9H0604 - EPA 5030B (Water)

Blank (B9H0604-BLK1)

Prepared: 08/06/2019 Analyzed: 08/06/2019

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	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	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: 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9H0604 - EPA 5030B (Water)

LCS (B9H0604-BS1)

Prepared: 08/06/2019 Analyzed: 08/06/2019

Benzene	51.2	1.00	ug/L	50.0		102	70-130			
Toluene	51.6	1.00	"	50.0		103	70-130			
Ethylbenzene	51.6	1.00	"	50.0		103	70-130			
m,p-Xylene	102	2.00	"	100		102	70-130			
o-Xylene	53.4	1.00	"	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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: 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9H0604 - EPA 5030B (Water)

Matrix Spike (B9H0604-MS1)	Source: Y908046-02			Prepared: 08/06/2019 Analyzed: 08/07/2019						
Benzene	48.0	1.00	ug/L	50.0	ND	96.0	70-130			
Toluene	48.0	1.00	"	50.0	ND	96.0	70-130			
Ethylbenzene	47.2	1.00	"	50.0	ND	94.3	70-130			
m,p-Xylene	94.1	2.00	"	100	ND	94.1	70-130			
o-Xylene	48.4	1.00	"	50.0	ND	96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	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: 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9H0604 - EPA 5030B (Water)

Matrix Spike Dup (B9H0604-MSD1)	Source: Y908046-02			Prepared: 08/06/2019 Analyzed: 08/07/2019						
Benzene	48.4	1.00	ug/L	50.0	ND	96.9	70-130	0.871	20	
Toluene	48.3	1.00	"	50.0	ND	96.6	70-130	0.644	20	
Ethylbenzene	46.3	1.00	"	50.0	ND	92.6	70-130	1.80	20	
m,p-Xylene	93.2	2.00	"	100	ND	93.2	70-130	0.908	20	
o-Xylene	48.9	1.00	"	50.0	ND	97.7	70-130	0.966	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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: 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.



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



December 04, 2019

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. November 25, 2019. This project is associated with Origins project number Y911446-01.

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	Y911446-01	Water	November 25, 2019 12:30	11/25/2019 16:45
MW02	Y911446-02	Water	November 25, 2019 12:36	11/25/2019 16:45
MW03	Y911446-03	Water	November 25, 2019 12:41	11/25/2019 16:45
MW04	Y911446-04	Water	November 25, 2019 12:47	11/25/2019 16:45
MW05	Y911446-05	Water	November 25, 2019 12:53	11/25/2019 16:45
MW06	Y911446-06	Water	November 25, 2019 13:02	11/25/2019 16:45
MW07	Y911446-07	Water	November 25, 2019 13:09	11/25/2019 16:45
MW08	Y911446-08	Water	November 25, 2019 13:14	11/25/2019 16:45
MW09	Y911446-09	Water	November 25, 2019 13:22	11/25/2019 16:45
MW10	Y911446-10	Water	November 25, 2019 13:28	11/25/2019 16:45
MW11	Y911446-11	Water	November 25, 2019 0:00	11/25/2019 16:45
MW12	Y911446-12	Water	November 25, 2019 13:42	11/25/2019 16:45
MW13	Y911446-13	Water	November 25, 2019 13:49	11/25/2019 16:45
MW14	Y911446-14	Water	November 25, 2019 13:56	11/25/2019 16:45

Origins Laboratory, Inc.



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

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

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	Y911446-15	Water	November 25, 2019 14:02	11/25/2019 16:45
MW16	Y911446-16	Water	November 25, 2019 14:09	11/25/2019 16:45
MW17	Y911446-17	Water	November 25, 2019 14:16	11/25/2019 16:45
MW18	Y911446-18	Water	November 25, 2019 14:22	11/25/2019 16:45
MW19	Y911446-19	Water	November 25, 2019 14:29	11/25/2019 16:45
MW20	Y911446-20	Water	November 25, 2019 12:30	11/25/2019 16:45
MW21	Y911446-21	Water	November 25, 2019 12:39	11/25/2019 16:45
MW22	Y911446-22	Water	November 25, 2019 12:48	11/25/2019 16:45
MW23	Y911446-23	Water	November 25, 2019 12:59	11/25/2019 16:45
MW24	Y911446-24	Water	November 25, 2019 13:10	11/25/2019 16:45
MW25	Y911446-25	Water	November 25, 2019 13:22	11/25/2019 16:45
MW26	Y911446-26	Water	November 25, 2019 13:31	11/25/2019 16:45
MW27	Y911446-27	Water	November 25, 2019 13:43	11/25/2019 16:45
MW28	Y911446-28	Water	November 25, 2019 13:55	11/25/2019 16:45

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	Y911446-29	Water	November 25, 2019 14:07	11/25/2019 16:45
MW30	Y911446-30	Water	November 25, 2019 14:19	11/25/2019 16:45

Origins Laboratory, Inc.



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

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

ORIGINS
 LABORATORY, INC

1911446

114

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: 014215255/WO# 88926630	
Project: KMG - Berger Jack C GU #1		Sample Date	Sample Time	Container	Analyses
Number	Sample Identification	Matrix	Sample Time	Container	QTY
01-001	MW01	Water	11-25-19	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
02-001	MW02	Water	1230	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
03-001	MW03	Water	1336	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
04-001	MW04	Water	1341	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
05-001	MW05	Water	1347	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
06-001	MW06	Water	1355	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
07-001	MW07	Water	1304	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
08-001	MW08	Water	1309	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
09-001	MW09	Water	1314	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
10-001	MW10	Water	1322	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C
11-001	MW11	Water	1328	40mL Amber VOA Vial - HC	3 BTEX by EPA 8260C

Relinquished By: Date / Time: 11-25-19 1645

Relinquished By: Date / Time: 11/25/19 1045

Received By: _____ Date / Time: _____

Received By: _____ Date / Time: _____

Temperature on Receipt: 78

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

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



Y911446

214

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

12-001	MM12	Water	11/25/19	1343	DT/DL	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	MM13	Water		1349		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	MM14	Water		1356		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MM15	Water		1409		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MM16	Water		1409		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MM17	Water		1416		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
18-001	MM18	Water		1422		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
19-001	MM19	Water		1429		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

[Signature] 11-25-19 / 1645

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

Relinquished By *[Signature]* Date / Time 11/25/19 1645
 Received By *[Signature]* Date / Time _____

Temperature on Receipt: 78
 Turn Around Time: Same Day 72-hr Standard 24-hr 48-hr

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

www.originslaboratory.com
 page 3 of 4

Y911446

Client: LTE
 Project Manager: Brian Sulzberger
 Address: Berger Jack C GU #1
 Project Name: 014215255
 Project Number: DT/DH
 Telephone Number: 616
 Email Address: 616

Samples Collected By: DT/DH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions					
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other							
MW20	11-25-19	1230	3	X				X										
MW21		1239																
MW22		1249																
MW23		1259																
MW24		1310																
MW25		1322																
MW26		1331																
MW27		1343																
MW28		1355																
MW29		1407																
Relinquished By: <u>[Signature]</u>	Date: 11-25-19	Time: 1615	Time: 1615	Date: 11-25-19	Date: 11-25-19	Time: 1645	Time: 1645	Received By: <u>[Signature]</u>	Received By:	Date: 11-25-19	Date: 11-25-19	Time: 1645	Time: 1645	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				

Temp Received: 7.8
 Date Results Needed

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/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: Y911446

Client: LTE
 Client Project ID: Berger Jack

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 11/26/2019

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

Cooler Number/Temperature: 1 / 7.8 °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 type="checkbox"/>	<input type="checkbox"/>	Some Day
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No sample time for - 11
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) OP Date/Time Reviewed 11/27/19

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

MW01

11/25/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-01 (Water)

BTEX by EPA 8260D

Benzene	42.6	4.00	ug/L	4	B9K2701	KDK	11/27/2019	11/27/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130			"	"		"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.1 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW02

11/25/2019 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	92.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW03

11/25/2019 12:41:00PM

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

Origins Laboratory, Inc.
Y911446-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	93.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	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

MW04

11/25/2019 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	93.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	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

11/25/2019 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-05 (Water)

BTEX by EPA 8260D

Benzene	45.6	4.00	ug/L	4	B9K2701	KDK	11/27/2019	11/27/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"		"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	94.2 %	70-130			"	"		"	

Origins Laboratory, Inc.



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

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

MW06

11/25/2019 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	92.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	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

MW07

11/25/2019 1:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-07 (Water)

BTEX by EPA 8260D

Benzene	13.4	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.52	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW08

11/25/2019 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-08 (Water)

BTEX by EPA 8260D

Benzene	16.4	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.38	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	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

MW09

11/25/2019 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	91.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW10

11/25/2019 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	92.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW11
11/25/2019 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	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

MW12

11/25/2019 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-12 (Water)

BTEX by EPA 8260D

Benzene	18.1	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	5.02	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	111 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

MW13

11/25/2019 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	91.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

MW14

11/25/2019 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW15

11/25/2019 2:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	90.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	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

11/25/2019 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	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

11/25/2019 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	89.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	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

11/25/2019 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-18 (Water)

BTEX by EPA 8260D

Benzene	3.85	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.6 %	70-130			"	"		"	
Surrogate: Toluene-d8	96.7 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW19

11/25/2019 2:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-19 (Water)

BTEX by EPA 8260D

Benzene	117	4.00	ug/L	4	B9K2701	KDK	11/27/2019	12/02/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.8 %	70-130			"	"		11/27/2019	
Surrogate: Toluene-d8	99.7 %	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

MW20
11/25/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-20 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2701	KDK	11/27/2019	11/27/2019	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	88.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	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: 014215255/WO# 88926630
 Project: KMG - Berger Jack C GU #1

MW21

11/25/2019 12:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-21 (Water)

BTEX by EPA 8260D

Benzene	1.19	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	3.09	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	93.9 %	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

11/25/2019 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-22 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	3.27	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"		
Surrogate: Toluene-d8	112 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	96.7 %	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

MW23

11/25/2019 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-23 (Water)

BTEX by EPA 8260D

Benzene	1.09	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	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

MW24

11/25/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-24 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	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	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	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

MW25

11/25/2019 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-25 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	3.09	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"		
Surrogate: Toluene-d8	110 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	94.8 %	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

11/25/2019 1:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-26 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	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	99.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	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

MW27

11/25/2019 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-27 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	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	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	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

MW28

11/25/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-28 (Water)

BTEX by EPA 8260D

Benzene	2.66	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	2.73	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	95.7 %	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

MW29

11/25/2019 2:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-29 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	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	100 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	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

MW30

11/25/2019 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911446-30 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2702	ZZZ	11/27/2019	11/28/2019	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	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	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

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 B9K2701 - EPA 5030B (Water)

Blank (B9K2701-BLK1)

Prepared: 11/27/2019 Analyzed: 11/27/2019

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	58		"	62.5	92.4		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.4		70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 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 B9K2701 - EPA 5030B (Water)

LCS (B9K2701-BS1)

Prepared: 11/27/2019 Analyzed: 11/27/2019

Benzene	47.8	1.00	ug/L	50.0		95.7	70-130			
Toluene	47.7	1.00	"	50.0		95.4	70-130			
Ethylbenzene	49.2	1.00	"	50.0		98.5	70-130			
m,p-Xylene	96.7	2.00	"	100		96.7	70-130			
o-Xylene	47.1	1.00	"	50.0		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.3	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	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 B9K2701 - EPA 5030B (Water)

Matrix Spike (B9K2701-MS1)	Source: Y911446-02			Prepared: 11/27/2019 Analyzed: 11/27/2019						
Benzene	43.6	1.00	ug/L	50.0	ND	87.3	70-130			
Toluene	43.3	1.00	"	50.0	ND	86.6	70-130			
Ethylbenzene	43.8	1.00	"	50.0	0.110	87.4	70-130			
m,p-Xylene	87.2	2.00	"	100	ND	87.2	70-130			
o-Xylene	43.2	1.00	"	50.0	ND	86.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	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 B9K2701 - EPA 5030B (Water)

Matrix Spike Dup (B9K2701-MSD1)	Source: Y911446-02			Prepared: 11/27/2019 Analyzed: 11/27/2019						
Benzene	44.2	1.00	ug/L	50.0	ND	88.5	70-130	1.32	20	
Toluene	43.6	1.00	"	50.0	ND	87.2	70-130	0.668	20	
Ethylbenzene	43.2	1.00	"	50.0	0.110	86.2	70-130	1.40	20	
m,p-Xylene	87.4	2.00	"	100	ND	87.4	70-130	0.172	20	
o-Xylene	42.4	1.00	"	50.0	ND	84.9	70-130	1.66	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.8	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 B9K2702 - EPA 5030B (Water)

Blank (B9K2702-BLK1)

Prepared: 11/27/2019 Analyzed: 11/28/2019

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	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	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

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 B9K2702 - EPA 5030B (Water)

LCS (B9K2702-BS1)

Prepared: 11/27/2019 Analyzed: 12/02/2019

Benzene	49.7	1.00	ug/L	50.0		99.3	70-130			
Toluene	49.1	1.00	"	50.0		98.2	70-130			
Ethylbenzene	49.5	1.00	"	50.0		98.9	70-130			
m,p-Xylene	97.2	2.00	"	100		97.2	70-130			
o-Xylene	50.0	1.00	"	50.0		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	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 B9K2702 - EPA 5030B (Water)

Matrix Spike (B9K2702-MS1)	Source: Y911447-01			Prepared: 11/27/2019 Analyzed: 11/28/2019						
Benzene	49.0	1.00	ug/L	50.0	ND	98.0	70-130			
Toluene	48.9	1.00	"	50.0	ND	97.7	70-130			
Ethylbenzene	50.4	1.00	"	50.0	1.75	97.4	70-130			
m,p-Xylene	112	2.00	"	100	12.1	99.4	70-130			
o-Xylene	52.8	1.00	"	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	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 B9K2702 - EPA 5030B (Water)

Matrix Spike Dup (B9K2702-MSD1)	Source: Y911447-01			Prepared: 11/27/2019 Analyzed: 11/28/2019						
Benzene	35.5	1.00	ug/L	50.0	ND	71.1	70-130	31.9	20	QR-03
Toluene	36.9	1.00	"	50.0	ND	73.8	70-130	27.9	20	QR-03
Ethylbenzene	37.1	1.00	"	50.0	1.75	70.6	70-130	30.6	20	QR-03
m,p-Xylene	81.3	2.00	"	100	12.1	69.1	70-130	31.4	20	QM-07, QR-03
o-Xylene	39.1	1.00	"	50.0	ND	78.2	70-130	29.8	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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