

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
WELLHEAD EXCAVATION SAMPLES								
N@3'	9/20/2023	3	0.0	NS	NO	40.1437557	-104.8229782	N
E@3'	9/20/2023	3	0.0	NS	NO	40.143745	-104.82298	N
S@3'	9/20/2023	3	0.0	NS	NO	40.143728	-104.82300	N
W@3'	9/20/2023	3	0.0	NS	NO	40.143748	-104.823017	N
FS01	9/20/2023	0.5	0.0	NS	NO	40.143796	-104.823009	N
FS02	9/20/2023	0.5	0.0	NS	NO	40.143713	-104.822921	N
FS03	9/20/2023	0.5	0.0	NS	NO	40.143624	-104.822998	N
FS04	9/20/2023	0.5	0.0	NS	NO	40.143726	-104.823116	N
WH01-RISER@5'	9/20/2023	5	0.0	NS	NO	40.14373	-104.823005	Y
B01@6'	9/20/2023	6	13.0	NS	NO	40.143741	-104.82299	Y
	10/2/2023		2.1	NS	NO	40.143741	-104.82299	Y
FLOWLINE POTHOLE SAMPLES								
FL01@2'	9/25/2023	2	1268.0	Stain	Odor	40.14120283	-104.8153539	Y
FL02@2'	9/25/2023	2	226.0	Stain	Odor	40.1413692	-104.8153588	Y
FL03@2'	9/25/2023	2	7.8	Stain	NO	40.141524	-104.815421	Y
FL04@2'	9/25/2023	2	2.6	NS	NO	40.141712	-104.81551	Y
FL05@2'	9/25/2023	2	1.4	NS	NO	40.141895	-104.815584	Y
PH06	9/25/2023	2	1.8	NS	NO	40.142095	-104.815702	N
PH07	9/25/2023	2	1.3	NS	NO	40.142313	-104.815899	N
PH08	9/25/2023	3	0.9	NS	NO	40.142676	-104.816082	N
FL06@2'	9/25/2023	2	1.3	NS	NO	40.142841	-104.816156	Y
PH10	9/26/2023	2	0.0	NS	NO	40.142913	-104.816333	N
PH11	9/26/2023	2	0.1	NS	NO	40.142954	-104.816602	N
PH12	9/26/2023	2	0.1	NS	NO	40.142996	-104.816918	N
PH13	9/26/2023	2	0.1	NS	NO	40.143019	-104.817184	N
PH14	9/26/2023	2	0.4	NS	NO	40.143048	-104.817482	N
FL07@2'	9/26/2023	2	0.5	NS	NO	40.143074	-104.817796	Y
FL08@3'	9/27/2023	3	1.1	NS	NO	40.14335	-104.818661	Y
PH17	9/27/2023	3	3.4	NS	NO	40.143324	-104.818994	N
PH18	9/27/2023	4	0.3	NS	NO	40.143313	-104.819308	N
PH19	9/27/2023	3	0.2	NS	NO	40.143321	-104.819645	N
PH20	9/27/2023	3	0.1	NS	NO	40.14332	-104.819956	N
PH21	9/27/2023	3	0.0	NS	NO	40.14332	-104.820238	N
PH22	9/27/2023	2	0.0	NS	NO	40.14332	-104.820558	N

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WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
FLOWLINE POTHOLE SAMPLES								
PH23	9/27/2023	4	0.0	NS	NO	40.143322	-104.820892	N
PH24	9/27/2023	4	0.2	NS	NO	40.143297	-104.821229	N
PH25	9/28/2023	3	1.2	NS	NO	40.143302	-104.821496	N
PH26	9/28/2023	4	1.0	NS	NO	40.143297	-104.821764	N
FL09@4'	9/28/2023	4	0.5	NS	NO	40.143292	-104.821996	Y
PH28	9/28/2023	3	0.3	NS	NO	40.143284	-104.822285	N
PH29	9/28/2023	3	0.7	NS	NO	40.143292	-104.822559	N
PH30	9/28/2023	4	0.3	NS	NO	40.143349	-104.822839	N
PH31	9/28/2023	4	0.2	NS	NO	40.14354	-104.822943	N
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	9/20/2023	3	0.0	NS	NO	40.143797	-104.823026	Y
Native-BG01@6'	9/20/2023	6	0.0	NS	NO	40.143797	-104.823026	Y
Native-BG02@3'	9/20/2023	3	0.0	NS	NO	40.14376	-104.822874	Y
Native-BG02@6'	9/20/2023	6	0.0	NS	NO	40.14376	-104.822874	Y
Native-BG03@3'	9/20/2023	3	0.0	NS	NO	40.143641	-104.822995	Y
Native-BG03@6'	9/20/2023	6	0.0	NS	NO	40.143641	-104.822995	Y
Native-BG04@3'	9/20/2023	3	0.0	NS	NO	40.143699	-104.82311	Y
Native-BG04@6'	9/20/2023	6	0.0	NS	NO	40.143699	-104.82311	Y

Notes:

ft. - feet
bgs - below ground surface
PID - Photoionization detector
ppm - parts per million

NS - No Staining
NO - No Odor
NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
B01@6'	09/20/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
	10/02/2023		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-RISER@5'	09/20/2023	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FLOWLINE POTHOLE SAMPLES												
FL01@2'	09/25/2023	2	1440	472	<100	0.152	0.00578	2.56	16.6	36.1	17.2	3.87
FL02@2'	09/25/2023	2	0.251	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.008
FL03@2'	09/25/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL04@2'	09/25/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL05@2'	09/25/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL06@2'	09/25/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL07@2'	09/26/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
FL08@3'	09/27/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
FL09@4'	09/28/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201

**TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
WELLHEAD EXCAVATION SAMPLES																
B01 @6'	9/20/2023	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
	10/2/2023		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-RISER @5'	9/20/2023	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FLOWLINE POTHOLE SAMPLES																
FL01 @2'	9/25/2023	2	0.168	0.037	0.050	0.023	0.058	0.027	0.074	<0.020	0.141	0.260	<0.020	2.94	8.99	0.184
FL02 @2'	9/25/2023	2	<0.020	<0.020	0.013	<0.080	<0.080	<0.080	<0.040	<0.080	<0.020	<0.020	<0.080	0.007	0.020	<0.040
FL03 @2'	9/25/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.003	<0.020
FL04 @2'	9/25/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL05 @2'	9/25/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL06 @2'	9/25/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL07 @2'	9/26/2023	2	<0.00067	<0.00067	<0.00067	0.00105	<0.00067	<0.00067	0.000664	<0.00067	0.000866	<0.00067	<0.00067	<0.00201	<0.00201	0.000972
FL08 @3'	9/27/2023	3	<0.00067	0.00151	0.0106	0.0208	0.00369	0.0209	0.0111	0.00381	0.013	<0.00067	0.0272	<0.00201	<0.00201	0.0167
FL09 @4'	9/28/2023	4	<0.00067	<0.00067	<0.00067	0.000834	<0.00067	<0.00067	0.000667	<0.00067	0.000786	<0.00067	0.000635	<0.00201	<0.00201	0.00107

**TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
WELLHEAD EXCAVATION SAMPLES						
B01@6'	09/20/2023	6	1.36	1.49	11.8	0.152
	10/02/2023		NA	NA	8.37*	NA
WH01-RISER@5'	09/20/2023	5	0.544	2.42	8.45*	<0.0994
FLOWLINE POTHOLE SAMPLES						
FL01@2'	09/25/2023	2	0.803	6.03*	8.31*	0.574
FL02@2'	09/25/2023	2	0.779	3.82	8.13	0.801
FL03@2'	09/25/2023	2	0.626	2.28	8.14	0.689
FL04@2'	09/25/2023	2	1.03	2.57	7.43	0.458
FL05@2'	09/25/2023	2	3.93	3.70	7.40	0.876
FL06@2'	09/25/2023	2	0.705	4.14	8.28	0.677
FL07@2'	09/26/2023	2	0.335	1.10	7.80	<0.102
FL08@3'	09/27/2023	3	1.86	6.21*	8.22	1.44
FL09@4'	09/28/2023	4	1.43	3.93	6.17	<0.983
BACKGROUND SAMPLES						
NATIVE-BG01@3'	09/20/2023	3	1.57	7.57	8.27	0.338
NATIVE-BG01@6'	09/20/2023	6	1.12	5.31	8.33	0.347
NATIVE-BG02@3'	09/20/2023	3	0.898	7.36	8.30	<0.100
NATIVE-BG02@6'	09/20/2023	6	1.68	10.2	8.39	0.861
NATIVE-BG03@3'	09/20/2023	3	0.172	2.90	8.34	<0.101
NATIVE-BG03@6'	09/20/2023	6	0.759	7.31	8.54	0.145
NATIVE-BG04@3'	09/20/2023	3	4.91	8.40	8.09	0.625
NATIVE-BG04@6'	09/20/2023	6	1.09	6.47	8.39	0.136

**TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WELLHEAD EXCAVATION SAMPLES												
B01@6'	09/20/2023	6	0.950*	18.7	<0.0966	<0.5	<9.66	<9.66	<9.66	<0.0966	<0.0966	<96.6
	10/02/2023		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-RISER@5'	09/20/2023	5	2.77*	36.6	0.143	<0.5	<8.75	<8.75	<8.75	0.0980	<0.0875	<87.5
FLOWLINE POTHOLE SAMPLES												
FL01@2'	09/25/2023	2	3.53	114*	0.289	<1.02	14.2	15.5	<8.46	0.339	0.252	<84.6
FL02@2'	09/25/2023	2	3.60	173	0.390	<2.56	18.1	18.5	10.1	0.549	0.182	<93.4
FL03@2'	09/25/2023	2	2.25*	79.2	0.166	<1.02	10.3	12.9	<8.83	0.235	<0.0883	<88.3
FL04@2'	09/25/2023	2	3.57	129	0.286	<2.5	24.3	20.7	<9.51	0.363	0.237	<95.1
FL05@2'	09/25/2023	2	3.30*	90.4*	0.359	<2.5	17.6	18.7	<9.01	0.389	0.196	<90.1
FL06@2'	09/25/2023	2	1.81*	69.8	0.129	<2.5	<9.91	<9.91	<9.91	0.142	<0.0991	<99.1
FL07@2'	09/26/2023	2	1.37*	32.0	0.101	<0.5	<8.81	<8.81	<8.81	<0.0881	<0.0881	<88.1
FL08@3'	09/27/2023	3	3.84	109*	0.571	<2.51	19.1	21.9	<9.03	0.238	0.227	<90.3
FL09@4'	09/28/2023	4	2.06*	100*	<0.026	<0.488	13.5	12.3	7.4	0.781	<0.0067	58
BACKGROUND SAMPLES												
NATIVE-BG01@3'	09/20/2023	3	1.91	120	<0.0918	<0.51	<9.18	<9.18	<9.18	0.128	<0.0918	<91.8
NATIVE-BG01@6'	09/20/2023	6	1.90	109	0.173	<0.514	12.0	9.72	<9.08	0.281	<0.0908	<90.8
NATIVE-BG02@3'	09/20/2023	3	1.69	24.4	<0.0924	<0.513	<9.24	<9.24	<9.24	<0.0924	<0.0924	<92.4
NATIVE-BG02@6'	09/20/2023	6	2.04	69.3	0.150	<0.51	<9.07	<9.07	<9.07	0.145	<0.0907	<90.7
NATIVE-BG03@3'	09/20/2023	3	2.21	14.4	<0.0939	<0.5	<9.39	<9.39	<9.39	<0.0939	<0.0939	<93.9
NATIVE-BG03@6'	09/20/2023	6	1.48	44.2	<0.0848	<0.517	<8.48	<8.48	<8.48	<0.0848	<0.0848	<84.8
NATIVE-BG04@3'	09/20/2023	3	1.16	18.4	<0.0884	<0.5	<8.84	<8.84	<8.84	<0.0884	<0.0884	<88.4
NATIVE-BG04@6'	09/20/2023	6	3.30	33.3	0.154	<0.514	15.7	<9.00	<9.00	<0.0900	<0.0900	174

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

*Exceeds Table 915-1 allowable level but below background

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level

**TABLE 3
GROUNDWATER ANALYTICAL RESULTS
MCPEEK 3-18 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-trimethylbenzene (µg/L)	1,3,5-trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		5	560	700	1400	140	67	67	1,612,500	250,000	397,500	
GW01	9/20/2023	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	950,000	211,000	303,000	5.0
FL-GW01	9/25/2023	5.95	<1.00	13.6	102	38.6	47.4	17.0	1,290,000	196,000	233,000	3.0
FL-GW02	9/25/2023	<1.00	<1.00	<1.00	<1.00	4.91	<2.00	<2.00	1,370,000	254,000	302,000	3.0
FL-GW03	9/25/2023	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	2,140,000	289,000	891,000	3.0
FL-GW04	9/25/2023	3.75	7.52	<1.00	5.92	<2.00	<2.00	<2.00	2,170,000	341,000	984,000	3.0
FL-GW05	9/25/2023	3.46	7.06	<1.00	5.46	<2.00	<2.00	<2.00	2,250,000	339,000	978,000	3.0
FL-GW06	9/25/2023	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,360,000	207,000	441,000	3.0
FL-GW07	9/28/2023	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,030,000	205,000	328,000	5.0
BG-GW01	9/20/2023	NA	NA	NA	NA	NA	NA	NA	1,160,000	208,000	299,000	5.0
BG-GW02	9/20/2023	NA	NA	NA	NA	NA	NA	NA	1,290,000	202,000	318,000	5.0
BG-GW03	9/20/2023	NA	NA	NA	NA	NA	NA	NA	1,140,000	197,000	281,000	5.0
BG-GW04	9/20/2023	NA	NA	NA	NA	NA	NA	NA	1,180,000	196,000	298,000	5.0

Notes: ECMC - Energy and Carbon Management Commission
ft bgs - feet below ground surface
NA - not analyzed/not available
Total dissolved solids, chloride ion, and sulfate ion parameters based on background sample (BG-GW02) concentration x 1.25
BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

µg/L - micrograms per liter
< - less than laboratory reporting limit
Excavation groundwater depth is approximate

September 29, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - McPeek 3-18 WH

Project Number - 09A1417397

Attached are your analytical results for KMG - McPeek 3-18 WH received by Origins Laboratory, Inc. September 20, 2023. This project is associated with Origins project number Y309461-01.

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



Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'(McPeek)	Y309461-01	Soil	September 20, 2023 14:50	09/20/2023 17:24
WH01-RISER@5'	Y309461-02	Soil	September 20, 2023 16:30	09/20/2023 17:24
GW01	Y309461-03	Water	September 20, 2023 14:40	09/20/2023 17:24
NATIVE-BG01@3'	Y309461-04	Soil	September 20, 2023 15:20	09/20/2023 17:24
NATIVE-BG01@6'	Y309461-05	Soil	September 20, 2023 15:20	09/20/2023 17:24
NATIVE-BG02@3'	Y309461-06	Soil	September 20, 2023 15:30	09/20/2023 17:24
NATIVE-BG02@6'	Y309461-07	Soil	September 20, 2023 15:30	09/20/2023 17:24
NATIVE-BG03@3'	Y309461-08	Soil	September 20, 2023 15:40	09/20/2023 17:24
NATIVE-BG03@6'	Y309461-09	Soil	September 20, 2023 15:40	09/20/2023 17:24
NATIVE-BG04@3'	Y309461-10	Soil	September 20, 2023 15:50	09/20/2023 17:24
NATIVE-BG04@6'	Y309461-11	Soil	September 20, 2023 15:50	09/20/2023 17:24
NATIVE GW01	Y309461-12	Water	September 20, 2023 16:00	09/20/2023 17:24
NATIVE GW02	Y309461-13	Water	September 20, 2023 16:00	09/20/2023 17:24
NATIVE GW03	Y309461-14	Water	September 20, 2023 16:10	09/20/2023 17:24

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE GW04	Y309461-15	Water	September 20, 2023 16:15	09/20/2023 17:24

Origins Laboratory, Inc.



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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

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



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U3094401 page 1 of 2

Client: Ensolum LLC
 Project Manager: Jeremy Espinoza
 Address: _____ Project Name: McPeck 3-18 Wellhead
 Telephone Number: _____ Project Number: 09A1417397
 Email Address: KMG Team Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Full Table 915-1	TPH-GRO/DRO/RO	EC/pH/SAR/Boron (SP)	TDS, SULFIDE, Chloride, 9/15 Meta	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater					
B01*6 (McPeck)	9/20/23	1450	3	X									
W01-POST-05'		1630	3	X									
GW01		1440	4	X									
Native B001*3'		1520	3	X									
Native B001*6'		1525	3	X									
Native B002*3'		1530	3	X									
Native B002*6'		1535	3	X									
Native B003*3'		1540	3	X									
Native B003*6'		1545	3	X									
Native B004*3'		1550	3	X									
Relinquished By:	Date: 9/20/23	Time: 1750	Received By:	Date: 9/20/23	Time: 1750	Turnaround Time: <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							

110

Date Results Needed

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

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

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 LABORATORY, INC

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4309401

page 2 of 2

Client: Ensolum LLC
 Address: _____
 Telephone Number: _____
 Email Address: KMG Team

Project Manager: Jeremy Espinoza
 Project Name: McPeck 3-18 Wellhead
 Project Number: 09A1417397
 Samples Collected By: Glenn Thompson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Full Table 915-1 BTEXN	1,2,4/1,3,5-TMB	TPH-GRO/DRO/CRO	EC/pH/SAR/Boron (SP)	TDS, Sulfate, Chloride 915 Metals	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other						
Native B&O #6	9/20/23	1555	3	X									
Native G1001		1600	4	X									
Native G1002		1605	4	X									
Native G1003		1610	4	X									
Native G1004		1615	4	X									

10 Date Results Needed

Requisitioned By: _____
 Date: 9/20/23
 Time: 1730

Received By: _____
 Date: 9/20/23
 Time: 1750

Turnaround Time:
 48 Hr
 Same Day
 24 Hr
 72 Hr

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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: MP094111

Client: Ensolum

Client Project ID: MCPECK 3-18 WH

Checklist Completed by: JAH

Shipped Via: HL

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

Date/time completed: 9/20/23

Airbill #: N/A

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

Cooler Number/Temperature: 1/10 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1004

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"/>		SP
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) JAH

Date/Time Reviewed 9/20/23

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

B01@6'(McPeek)
9/20/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.152		0.101	mg/L	1	B312113	09/21/2023	09/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312059	09/20/2023	09/21/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312060	09/20/2023	09/20/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

B01@6'(McPeek)
9/20/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	81.9 %		70-130			B31206 0	09/20/2023	09/20/2023	
Surrogate: 4-Bromofluorobenzene	88.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.50		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.24		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312051	09/20/2023	09/20/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

B01@6'(McPeek)
9/20/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3I2051	09/20/2023	09/20/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	90.2 %		60-130			"	"	"	

pH in Soil by 9045D

pH	11.8			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	1.49		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

B01@6'(McPeek)
9/20/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.950		0.0966	mg/kg	10	B312049	09/20/2023	09/26/2023	
Barium	18.7		9.66	"	"	"	"	"	
Cadmium	ND		0.0966	"	"	"	"	"	
Copper	ND		9.66	"	"	"	"	"	
Lead	ND		9.66	"	"	"	"	"	
Nickel	ND		9.66	"	"	"	"	"	
Selenium	ND		0.0966	"	"	"	"	"	
Silver	ND		0.0966	"	"	"	"	"	
Zinc	ND		96.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

WH01-RISER@5'
9/20/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0994	mg/L	1	B312113	09/21/2023	09/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312059	09/20/2023	09/21/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312060	09/20/2023	09/20/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.1 % 70-130 " " "

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

WH01-RISER@5'
9/20/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.0 %		70-130			B31206 0	09/20/2023	09/20/2023	
Surrogate: 4-Bromofluorobenzene	88.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.28		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.33		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312051	09/20/2023	09/20/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

WH01-RISER@5'
9/20/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3I2051	09/20/2023	09/20/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	2.42		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.544		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

WH01-RISER@5'
9/20/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.77		0.0875	mg/kg	10	B312049	09/20/2023	09/22/2023	
Barium	36.6		8.75	"	"	"	"	"	
Cadmium	0.143		0.0875	"	"	"	"	"	
Copper	ND		8.75	"	"	"	"	09/27/2023	
Lead	ND		8.75	"	"	"	"	09/22/2023	
Nickel	ND		8.75	"	"	"	"	"	
Selenium	0.0980		0.0875	"	"	"	"	"	
Silver	ND		0.0875	"	"	"	"	"	
Zinc	ND		87.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

GW01

9/20/2023 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-03 (Water)

Anions by IC 300.0

Chloride	211		31.2	mg/L	125	B312101	09/21/2023	09/22/2023	
Sulfate	303		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312054	09/20/2023	09/20/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	114 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	89.5 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	950		5.00	mg/L	1	B312122	09/21/2023	09/21/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG01@3'
9/20/2023 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.338		0.0993	mg/L	1	B3I2113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.13		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	1.21		0.823	"	"	"	"	"	
Sodium	9.78		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.27			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	7.57		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.57		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.91		0.0918	mg/kg	10	B3I2049	09/20/2023	09/22/2023	
Barium	120		9.18	"	"	"	"	"	
Cadmium	ND		0.0918	"	"	"	"	"	
Copper	ND		9.18	"	"	"	"	09/27/2023	

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG01@3'
9/20/2023 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-04 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.18	mg/kg	10	B312049	09/20/2023	09/22/2023	
Nickel	ND		9.18	"	"	"	"	"	
Selenium	0.128		0.0918	"	"	"	"	"	
Silver	ND		0.0918	"	"	"	"	"	
Zinc	ND		91.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG01@6'
9/20/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.347		0.102	mg/L	1	B312113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.09		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	0.974		0.823	"	"	"	"	"	
Sodium	6.57		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B312119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	5.31		0.0100	SAR	1	B312107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.12		0.00500	mmhos/cm	1	B312119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.90		0.0908	mg/kg	10	B312049	09/20/2023	09/22/2023	
Barium	109		9.08	"	"	"	"	"	
Cadmium	0.173		0.0908	"	"	"	"	"	
Copper	12.0		9.08	"	"	"	"	09/27/2023	

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG01@6'
9/20/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-05 (Soil)

Table 915 metals by EPA 6020B

Lead	9.72		9.08	mg/kg	10	B312049	09/20/2023	09/22/2023	
Nickel	ND		9.08	"	"	"	"	"	
Selenium	0.281		0.0908	"	"	"	"	"	
Silver	ND		0.0908	"	"	"	"	"	
Zinc	ND		90.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Ensolum
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG02@3'
9/20/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3I2113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	0.873		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.13		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	7.36		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.898		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.69		0.0924	mg/kg	10	B3I2049	09/20/2023	09/22/2023	
Barium	24.4		9.24	"	"	"	"	"	
Cadmium	ND		0.0924	"	"	"	"	"	

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE-BG02@3'
9/20/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.24	mg/kg	10	B312049	09/20/2023	09/27/2023	
Lead	ND		9.24	"	"	"	"	09/22/2023	
Nickel	ND		9.24	"	"	"	"	"	
Selenium	ND		0.0924	"	"	"	"	"	
Silver	ND		0.0924	"	"	"	"	"	
Zinc	ND		92.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG02@6'
9/20/2023 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.861		0.100	mg/L	1	B3I2113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.59		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	0.949		0.823	"	"	"	"	"	
Sodium	11.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	10.2		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.68		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.04		0.0907	mg/kg	10	B3I2049	09/20/2023	09/22/2023	
Barium	69.3		9.07	"	"	"	"	"	
Cadmium	0.150		0.0907	"	"	"	"	"	
Copper	ND		9.07	"	"	"	"	09/27/2023	

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG02@6'
9/20/2023 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-07 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.07	mg/kg	10	B312049	09/20/2023	09/22/2023	
Nickel	ND		9.07	"	"	"	"	"	
Selenium	0.145		0.0907	"	"	"	"	"	
Silver	ND		0.0907	"	"	"	"	"	
Zinc	ND		90.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Origins Laboratory, Inc.



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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG03@3'
9/20/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B312113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.18		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.34			pH Units	1	B312119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	2.90		0.0100	SAR	1	B312107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.172		0.00500	mmhos/cm	1	B312119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.21		0.0939	mg/kg	10	B312049	09/20/2023	09/22/2023	
Barium	14.4		9.39	"	"	"	"	"	
Cadmium	ND		0.0939	"	"	"	"	"	

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG03@3'
9/20/2023 3:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.39	mg/kg	10	B312049	09/20/2023	09/27/2023	
Lead	ND		9.39	"	"	"	"	09/22/2023	
Nickel	ND		9.39	"	"	"	"	"	
Selenium	ND		0.0939	"	"	"	"	"	
Silver	ND		0.0939	"	"	"	"	"	
Zinc	ND		93.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG03@6'
9/20/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.145		0.0996	mg/L	1	B3I2113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	0.685		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.49		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.54			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	7.31		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.759		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.48		0.0848	mg/kg	10	B3I2049	09/20/2023	09/22/2023	
Barium	44.2		8.48	"	"	"	"	"	
Cadmium	ND		0.0848	"	"	"	"	"	
Copper	ND		8.48	"	"	"	"	09/27/2023	

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE-BG03@6'
9/20/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-09 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.48	mg/kg	10	B312049	09/20/2023	09/22/2023	
Nickel	ND		8.48	"	"	"	"	"	
Selenium	ND		0.0848	"	"	"	"	"	
Silver	ND		0.0848	"	"	"	"	"	
Zinc	ND		84.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG04@3'
9/20/2023 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.625		0.0998	mg/L	1	B3I2113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	15.1		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	7.66		0.823	"	"	"	"	"	
Sodium	28.3		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	8.40		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.91		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.16		0.0884	mg/kg	10	B3I2049	09/20/2023	09/22/2023	
Barium	18.4		8.84	"	"	"	"	"	
Cadmium	ND		0.0884	"	"	"	"	"	
Copper	ND		8.84	"	"	"	"	09/27/2023	

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE-BG04@3'
9/20/2023 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-10 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		8.84	mg/kg	10	B312049	09/20/2023	09/22/2023	
Nickel	ND		8.84	"	"	"	"	"	
Selenium	ND		0.0884	"	"	"	"	"	
Silver	ND		0.0884	"	"	"	"	"	
Zinc	ND		88.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG04@6'
9/20/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.136		0.101	mg/L	1	B3I2113	09/21/2023	09/22/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	1.46		0.499	meq/L	10	[CALC]	09/21/2023	09/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.91		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B3I2119	09/21/2023	09/22/2023	
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SAR by 20B Saturated Paste

SAR	6.47		0.0100	SAR	1	B3I2107	09/21/2023	09/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.09		0.00500	mmhos/cm	1	B3I2119	09/21/2023	09/22/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.30		0.0900	mg/kg	10	B3I2049	09/20/2023	09/22/2023	
Barium	33.3		9.00	"	"	"	"	"	
Cadmium	0.154		0.0900	"	"	"	"	"	
Copper	15.7		9.00	"	"	"	"	09/27/2023	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

NATIVE-BG04@6'
9/20/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-11 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.00	mg/kg	10	B312049	09/20/2023	09/22/2023	
Nickel	ND		9.00	"	"	"	"	"	
Selenium	ND		0.0900	"	"	"	"	"	
Silver	ND		0.0900	"	"	"	"	"	
Zinc	174		90.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L706587	09/20/2023	09/25/2023	
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE GW01
9/20/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-12 (Water)

Anions by IC 300.0

Chloride	208		31.2	mg/L	125	B3I2101	09/21/2023	09/22/2023	
Sulfate	299		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1160		5.00	"	1	B3I2122	09/21/2023	09/21/2023	
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE GW02
9/20/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-13 (Water)

Anions by IC 300.0

Chloride	202		31.2	mg/L	125	B3I2101	09/21/2023	09/22/2023	
Sulfate	318		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1290		5.00	"	1	B3I2122	09/21/2023	09/21/2023	
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE GW03
9/20/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-14 (Water)

Anions by IC 300.0

Chloride	197		31.2	mg/L	125	B3I2101	09/21/2023	09/22/2023	
Sulfate	281		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1140		5.00	"	1	B3I2122	09/21/2023	09/21/2023	
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Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

NATIVE GW04
9/20/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309461-15 (Water)

Anions by IC 300.0

Chloride	196		31.2	mg/L	125	B3I2101	09/21/2023	09/22/2023	
Sulfate	298		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1180		5.00	"	1	B3I2122	09/21/2023	09/21/2023	
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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2054 - EPA 5030B (Water)

Blank (B3I2054-BLK1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101		70-130			
Surrogate: Toluene-d8	70		"	62.5	112		70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5	87.4		70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2054 - EPA 5030B (Water)

LCS (B3I2054-BS1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

1,2,4-Trimethylbenzene	43.5	2.00	ug/L	50.0		86.9	70-130			
1,3,5-Trimethylbenzene	44.1	2.00	"	50.0		88.2	70-130			
Benzene	46.0	1.00	"	50.0		92.1	70-130			
Ethylbenzene	47.2	1.00	"	50.0		94.5	70-130			
m,p-Xylene	88.4	2.00	"	100		88.4	70-130			
Naphthalene	45.6	2.00	"	50.0		91.1	70-130			
o-Xylene	41.2	1.00	"	50.0		82.4	70-130			
Toluene	47.2	1.00	"	50.0		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	70		"	62.5		112	70-130			
Surrogate: 4-Bromofluorobenzene	52		"	62.5		83.7	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2054 - EPA 5030B (Water)

Matrix Spike (B3I2054-MS1)	Source: Y309426-18			Prepared: 09/20/2023 Analyzed: 09/20/2023						
1,2,4-Trimethylbenzene	43.2	2.00	ug/L	50.0	ND	86.3	70-130			
1,3,5-Trimethylbenzene	44.7	2.00	"	50.0	ND	89.4	70-130			
Benzene	46.3	1.00	"	50.0	ND	92.7	70-130			
Ethylbenzene	47.1	1.00	"	50.0	ND	94.1	70-130			
m,p-Xylene	87.1	2.00	"	100	ND	87.1	70-130			
Naphthalene	42.7	2.00	"	50.0	ND	85.4	70-130			
o-Xylene	42.6	1.00	"	50.0	ND	85.1	70-130			
Toluene	49.8	1.00	"	50.0	ND	99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.4	70-130			
Surrogate: Toluene-d8	73		"	62.5		118	70-130			
Surrogate: 4-Bromofluorobenzene	50		"	62.5		80.1	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2054 - EPA 5030B (Water)

Matrix Spike Dup (B3I2054-MSD1)	Source: Y309426-18			Prepared: 09/20/2023 Analyzed: 09/20/2023						
1,2,4-Trimethylbenzene	45.3	2.00	ug/L	50.0	ND	90.6	70-130	4.86	20	
1,3,5-Trimethylbenzene	45.7	2.00	"	50.0	ND	91.3	70-130	2.12	20	
Benzene	48.3	1.00	"	50.0	ND	96.6	70-130	4.12	20	
Ethylbenzene	48.6	1.00	"	50.0	ND	97.1	70-130	3.14	20	
m,p-Xylene	89.4	2.00	"	100	ND	89.4	70-130	2.59	20	
Naphthalene	47.1	2.00	"	50.0	ND	94.2	70-130	9.82	20	
o-Xylene	42.9	1.00	"	50.0	ND	85.7	70-130	0.702	20	
Toluene	48.4	1.00	"	50.0	ND	96.9	70-130	2.69	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	69		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.6	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312059 - EPA 3550B										
Blank (B312059-BLK1)										
					Prepared: 09/20/2023 Analyzed: 09/21/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312059 - EPA 3550B

LCS (B312059-BS1)

Prepared: 09/20/2023 Analyzed: 09/21/2023

Diesel (C10-C28)	994	50.0	mg/kg	1000		99.4	70-130			
Residual Range Organics (C28-C40)	985	200	"	1000		98.5	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2059 - EPA 3550B

Matrix Spike (B3I2059-MS1)	Source: Y309418-01			Prepared: 09/20/2023 Analyzed: 09/21/2023						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2059 - EPA 3550B

Matrix Spike Dup (B3I2059-MSD1)	Source: Y309418-01		Prepared: 09/20/2023 Analyzed: 09/21/2023							
Diesel (C10-C28)	953	50.0	mg/kg	1000	ND	95.3	70-130	9.88	35	
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130	9.96	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312060 - EPA 5030 (soil)

Blank (B312060-BLK1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	111		70-130			
Surrogate: 4-Bromofluorobenzene	0.092		"	0.125	73.7		70-130			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312060 - EPA 5030 (soil)

LCS (B312060-BS1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0935	0.00200	"	0.100		93.5	70-130			
o-Xylene	0.0952	0.00200	"	0.100		95.2	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2060 - EPA 5030 (soil)

Matrix Spike (B3I2060-MS1)	Source: Y309461-01			Prepared: 09/20/2023 Analyzed: 09/20/2023						
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100	ND	93.4	70-130			
1,3,5-Trimethylbenzene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
Benzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.0853	0.00380	"	0.100	ND	85.3	70-130			
Toluene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2060 - EPA 5030 (soil)

Matrix Spike Dup (B3I2060-MSD1)	Source: Y309461-01		Prepared: 09/20/2023 Analyzed: 09/20/2023							
1,2,4-Trimethylbenzene	0.0895	0.00200	mg/kg	0.100	ND	89.5	70-130	4.26	20	
1,3,5-Trimethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130	2.90	20	
Benzene	0.0986	0.00200	"	0.100	ND	98.6	70-130	4.20	20	
Ethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	27.0	20	QR-02
Naphthalene	0.0904	0.00380	"	0.100	ND	90.4	70-130	5.83	20	
Toluene	0.0895	0.00200	"	0.100	ND	89.5	70-130	2.80	20	
o-Xylene	0.0848	0.00200	"	0.100	ND	84.8	70-130	21.5	20	QR-02
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	26.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.6	70-130			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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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Metals by EPA 6000/7000 Series Methods - 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 B3I2049 - EPA 3050B

Blank (B3I2049-BLK1)

Prepared: 09/20/2023 Analyzed: 09/26/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3I2049-BS1)

Prepared: 09/20/2023 Analyzed: 09/26/2023

Arsenic	0.0512	0.000100	mg/kg	0.0500		102	80-120			
Barium	5.30	0.0100	"	5.00		106	80-120			
Cadmium	0.0527	0.000100	"	0.0500		105	80-120			
Copper	0.514	0.0100	"	0.500		103	80-120			
Lead	0.0531	0.0100	"	0.0500		106	80-120			
Nickel	0.0510	0.0100	"	0.0500		102	80-120			
Selenium	0.0510	0.000100	"	0.0500		102	80-120			
Silver	0.0520	0.000100	"	0.0500		104	80-120			
Zinc	0.508	0.100	"	0.500		102	80-120			

Matrix Spike (B3I2049-MS1)

Source: Y309459-01

Prepared: 09/20/2023 Analyzed: 09/26/2023

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Metals by EPA 6000/7000 Series Methods - 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 B3I2049 - EPA 3050B

Matrix Spike (B3I2049-MS1)		Source: Y309459-01			Prepared: 09/20/2023 Analyzed: 09/26/2023					
Arsenic	5.66	0.0893	mg/kg	4.47	1.62	90.4	75-125			
Barium	475	8.93	"	447	44.6	96.2	75-125			
Cadmium	4.20	0.0893	"	4.47	0.0510	92.8	75-125			
Copper	45.0	8.93	"	44.7	6.20	86.9	75-125			
Lead	7.48	8.93	"	4.47	3.19	95.9	75-125			
Nickel	8.72	8.93	"	4.47	6.23	55.6	75-125			QM-07
Selenium	4.09	0.0893	"	4.47	0.0923	89.4	75-125			
Silver	4.20	0.0893	"	4.47	0.0176	93.6	75-125			
Zinc	54.0	89.3	"	44.7	13.6	90.3	75-125			

Matrix Spike Dup (B3I2049-MSD1)		Source: Y309459-01			Prepared: 09/20/2023 Analyzed: 09/26/2023					
Arsenic	15.9	0.0860	mg/kg	4.30	1.62	333	75-125	95.2	20	QM-07
Barium	576	8.60	"	430	44.6	124	75-125	19.3	20	
Cadmium	4.57	0.0860	"	4.30	0.0510	105	75-125	8.57	20	
Copper	51.1	8.60	"	43.0	6.20	104	75-125	12.6	20	
Lead	9.56	8.60	"	4.30	3.19	148	75-125	24.5	20	QM-07
Nickel	15.1	8.60	"	4.30	6.23	207	75-125	53.8	20	QM-07
Selenium	4.04	0.0860	"	4.30	0.0923	91.9	75-125	1.04	20	
Silver	4.14	0.0860	"	4.30	0.0176	95.8	75-125	1.47	20	
Zinc	66.8	86.0	"	43.0	13.6	124	75-125	21.3	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2051 - EPA 3580

Blank (B3I2051-BLK1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
<hr/>										
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	180		"	200		89.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130			

LCS (B3I2051-BS1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200		98.0	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200		97.3	70-130			
Acenaphthene	0.194	0.020	"	0.200		97.1	70-130			
Anthracene	0.178	0.020	"	0.200		88.9	70-130			

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Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2051 - EPA 3580

LCS (B3I2051-BS1)

Prepared: 09/20/2023 Analyzed: 09/20/2023

Benzo (a) anthracene	0.191	0.005	mg/kg	0.200		95.7	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200		110	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.7	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.174	0.020	"	0.200		87.0	70-130			
Chrysene	0.187	0.020	"	0.200		93.5	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		97.1	70-130			
Fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Fluorene	0.192	0.020	"	0.200		96.0	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.198	0.002	"	0.200		99.2	70-130			
Phenanthrene	0.195	0.020	"	0.200		97.6	70-130			
Pyrene	0.193	0.020	"	0.200		96.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		99.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B3I2051-MS1)

Source: Y309454-01

Prepared: 09/20/2023 Analyzed: 09/20/2023

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	ND	101	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.5	70-130			
Acenaphthene	0.193	0.020	"	0.200	ND	96.7	70-130			
Anthracene	0.161	0.020	"	0.200	ND	80.4	70-130			
Benzo (a) anthracene	0.178	0.005	"	0.200	0.001	88.5	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.195	0.020	"	0.200	ND	97.7	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	ND	96.3	70-130			

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 Project: KMG - McPeek 3-18 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2051 - EPA 3580

Matrix Spike (B3I2051-MS1)		Source: Y309454-01			Prepared: 09/20/2023 Analyzed: 09/20/2023					
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	ND	97.7	70-130			
Chrysene	0.188	0.020	"	0.200	0.0005	93.9	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	98.9	70-130			
Fluoranthene	0.198	0.020	"	0.200	ND	99.2	70-130			
Fluorene	0.191	0.020	"	0.200	ND	95.3	70-130			
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Naphthalene	0.196	0.002	"	0.200	ND	97.8	70-130			
Phenanthrene	0.193	0.020	"	0.200	ND	96.6	70-130			
Pyrene	0.178	0.020	"	0.200	ND	88.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	190		"	200		95.8	60-130			
Surrogate: Pyrene-d10	180		"	200		87.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike Dup (B3I2051-MSD1)		Source: Y309454-01			Prepared: 09/20/2023 Analyzed: 09/20/2023					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.2	70-130	4.59	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.6	70-130	0.143	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.7	70-130	1.04	20	
Anthracene	0.168	0.020	"	0.200	ND	83.9	70-130	4.19	20	
Benzo (a) anthracene	0.180	0.005	"	0.200	0.001	89.5	70-130	1.18	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130	5.08	20	
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.6	70-130	3.23	20	
Benzo (g,h,i) perylene	0.199	0.020	"	0.200	ND	99.6	70-130	3.35	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	ND	100	70-130	2.68	20	
Chrysene	0.185	0.020	"	0.200	0.0005	92.3	70-130	1.75	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	98.8	70-130	0.170	20	
Fluoranthene	0.191	0.020	"	0.200	ND	95.7	70-130	3.56	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2051 - EPA 3580

Matrix Spike Dup (B3I2051-MSD1)	Source: Y309454-01			Prepared: 09/20/2023 Analyzed: 09/20/2023						
Fluorene	0.193	0.020	mg/kg	0.200	ND	96.6	70-130	1.35	20	
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	ND	103	70-130	0.729	20	
Naphthalene	0.196	0.002	"	0.200	ND	97.8	70-130	0.0116	20	
Phenanthrene	0.197	0.020	"	0.200	ND	98.7	70-130	2.15	20	
Pyrene	0.199	0.020	"	0.200	ND	99.4	70-130	11.3	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2101 - Filter .45um non acidified										
Blank (B3I2101-BLK1)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B3I2101-BS1)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	3.97	0.250	mg/L	4.00		99.1	90-110			
Sulfate	3.91	0.250	"	4.00		97.8	90-110			
Matrix Spike (B3I2101-MS1)		Source: Y309393-05			Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	546		mg/L	500	31.5	103	90-110			
Sulfate	1150		"	500	608	108	90-110			
Matrix Spike Dup (B3I2101-MSD1)		Source: Y309393-05			Prepared: 09/21/2023 Analyzed: 09/21/2023					
Chloride	539		mg/L	500	31.5	101	90-110	1.24	5	
Sulfate	1140		"	500	608	107	90-110	0.194	5	
Batch B3I2107 - Saturated Paste Metals										
Blank (B3I2107-BLK1)					Prepared: 09/21/2023 Analyzed: 09/22/2023					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B3I2107-DUP1)		Source: Y309330-01			Prepared: 09/21/2023 Analyzed: 09/28/2023					
SAR	ND	0.0100	SAR		16.0					200
Calcium PPM	422	100	mg/L		380			10.4	50	
Magnesium PPM	595	100	"		488			19.8	50	
Sodium PPM	2320	100	"		2000			14.8	50	

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 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2113 - DTPA Sorbitol Preparation										
Blank (B3I2113-BLK1)					Prepared: 09/21/2023 Analyzed: 09/22/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3I2113-DUP1)		Source: Y309460-01			Prepared: 09/21/2023 Analyzed: 09/22/2023					
Boron	0.537	0.0987	mg/L		0.407			27.5	50	
Batch B3I2122 - NO PREP										
Blank (B3I2122-BLK1)					Prepared: 09/21/2023 Analyzed: 09/21/2023					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3I2122-BS1)		Source: Y309348-03			Prepared: 09/21/2023 Analyzed: 09/21/2023					
Total Dissolved Solids	978	5.00	mg/L	1000		97.8	90-110			
Duplicate (B3I2122-DUP1)		Source: Y309348-03			Prepared: 09/21/2023 Analyzed: 09/21/2023					
Total Dissolved Solids	4940	5.00	mg/L		5180			4.82	10	

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 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Saturated Paste - 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 B3I2119 - Saturated Paste pH/EC

Blank (B3I2119-BLK1)

Prepared: 09/21/2023 Analyzed: 09/22/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I2119-DUP1)

Source: Y309330-01

Prepared: 09/21/2023 Analyzed: 09/22/2023

pH	8.19		pH Units		8.12		0.858	25		
Specific Conductance (EC)	12.3	0.00500	mmhos/cm		12.2		1.12	25		

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 Project: KMG - McPeek 3-18 WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L706587 -										
DUP (L 85377-DUP)		Source: Y309461-10			Prepared: Analyzed: 09/25/2023					
Chromium, Hexavalent	ND	0.507	mg/Kg		<0.507		-	0	20	
MS (L 85377-MS)		Source: Y309461-10			Prepared: Analyzed: 09/25/2023					
Chromium, Hexavalent	34.8	2.5	mg/Kg	39.5	<1.22	88	75-125			
LCS (LCS)		Prepared: Analyzed: 09/25/2023								
Chromium, Hexavalent	7.04	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 09/25/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Project: KMG - McPeek 3-18 WH

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.

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 on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.

October 06, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - McPeek 3-18 WH

Project Number - 09A1417397

Attached are your analytical results for KMG - McPeek 3-18 WH received by Origins Laboratory, Inc. October 02, 2023. This project is associated with Origins project number Y310043-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6' (McPeek)	Y310043-01	Soil	October 2, 2023 10:05	10/02/2023 15:40

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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310043

Client: Ensolum
 Client Project ID: McPeck 3-18WH

Checklist Completed by: EHS

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

Date/time completed: 10/2/23

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

Cooler Number/Temperature: 1 / 6 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
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)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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.

Jeremy Espinoza
 Reviewed by (Project Manager)

10/2/23
 Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

B01@6' (McPeek)
10/2/2023 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310043-01 (Soil)

pH in Soil by 9045D

pH	8.37		pH Units	1	B3J0317	HJD	10/03/2023	10/04/2023	
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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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Saturated Paste - 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 B3J0317 - Saturated Paste pH/EC

Duplicate (B3J0317-DUP1)		Source: Y310023-01		Prepared: 10/03/2023 Analyzed: 10/04/2023	
pH	4.00		pH Units	3.62	9.97 25

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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417397

Project: KMG - McPeck 3-18 WH

Notes and Definitions

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.

October 06, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - McPeek 3-18 WH

Project Number - 09A1417397

Attached are your analytical results for KMG - McPeek 3-18 WH received by Origins Laboratory, Inc. September 25, 2023. This project is associated with Origins project number Y309578-01.

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



Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@2'	Y309578-01	Soil	September 25, 2023 14:50	09/25/2023 17:50
FL02@2'	Y309578-02	Soil	September 25, 2023 14:54	09/25/2023 17:50
FL03@2'	Y309578-03	Soil	September 25, 2023 14:58	09/25/2023 17:50
FL04@2'	Y309578-04	Soil	September 25, 2023 15:00	09/25/2023 17:50
FL05@2'	Y309578-05	Soil	September 25, 2023 15:25	09/25/2023 17:50
FL06@2'	Y309578-06	Soil	September 25, 2023 15:15	09/25/2023 17:50
FL-GW01@3'	Y309578-07	Water	September 25, 2023 16:05	09/25/2023 17:50
FL-GW02@3'	Y309578-08	Water	September 25, 2023 16:10	09/25/2023 17:50
FL-GW03@3'	Y309578-09	Water	September 25, 2023 16:15	09/25/2023 17:50
FL-GW04@3'	Y309578-10	Water	September 25, 2023 16:20	09/25/2023 17:50
FL-GW05@3'	Y309578-11	Water	September 25, 2023 16:25	09/25/2023 17:50
FL-GW06@3'	Y309578-12	Water	September 25, 2023 16:30	09/25/2023 17:50

Origins Laboratory, Inc.



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

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

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



INITIAL

V6091572

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page 1 of 2

Client: Ensolum
 Address: _____
 Telephone Number: _____
 Email Address: KMG-Team
 Project Manager: Jeremy Espinoza
 Project Name: Mc Peck 3-18 Wellhead
 Project Number: 09A1417397
 Samples Collected By: JR & JH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater		
FL01 @ 2'	9/25/23	1450	3	X					X	FULL LIST 915
FL02 @ 2'		1454								
FL03 @ 2'		1458								
FL04 @ 2'		1500								
FL05 @ 2'		1525								
FL06 @ 2'		155								
FL-GW01 @ 3'		1605	4				X			
FL-GW02 @ 3'		1610								
FL-GW03 @ 3'		1615								
FL-GW04 @ 3'		1620								
Relinquished By:	Date: 9/25/23	Time: 1730					Received By:	Date: 9/25/23	Time: 1750	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard

Temp Received: 7 Date Results Needed

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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-17M1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: MB09578

Client: Ensolum

Client Project ID: McPeck 3-17M1

Checklist Completed by: JSH

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

Date/time completed: 9/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 7 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: TA04

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"/>		SD
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"/>	<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) JSH

Date/Time Reviewed 9/25/23

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL01@2'

9/25/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.574		0.0997	mg/L	1	B312611	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	472		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	93.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	36.1		0.500	mg/kg	250	B312528	09/25/2023	09/26/2023	
1,3,5-Trimethylbenzene	17.2		0.500	"	"	"	"	"	
Benzene	0.152		0.00200	"	1	"	"	09/26/2023	
Ethylbenzene	2.56		0.0500	"	25	"	"	09/26/2023	
Toluene	0.00578		0.00200	"	1	"	"	09/26/2023	
Xylenes, total	16.6		0.0500	"	25	"	"	09/26/2023	
Gasoline Range Hydrocarbons	1440		50.0	"	250	"	"	09/26/2023	

Surrogate: 1,2-Dichloroethane-d4	94.9 %		70-130			"	"	09/26/2023	
Surrogate: Toluene-d8	99.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL01@2'

9/25/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	165 %	70-130				B31252 8	09/25/2023	09/26/2023	QM-07, S-GC
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Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]		09/26/2023	09/27/2023	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	6.16	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	2.94	0.020	mg/kg	10	B312527	09/25/2023	10/02/2023	
2-Methylnaphthalene	8.99	0.020	"	"	"	"	"	
Acenaphthene	0.168	0.020	"	1	"	"	09/30/2023	
Anthracene	0.037	0.020	"	"	"	"	"	
Benzo (a) anthracene	0.050	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.027	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.023	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.058	0.020	"	"	"	"	"	
Chrysene	0.074	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	0.141	0.020	"	"	"	"	"	
Fluorene	0.260	0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U

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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

FL01@2'

9/25/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-01 (Soil)

PAH by EPA 8270E

Naphthalene	3.87		0.020	mg/kg	10	B312527	09/25/2023	10/02/2023	
Pyrene	0.184		0.020	"	1	"	"	09/30/2023	

Surrogate: Fluorene-d10	97.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	118 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	6.03		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.803		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.53		0.0846	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	114		8.46	"	"	"	"	"	
Cadmium	0.289		0.0846	"	"	"	"	"	

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.

Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

FL01@2'

9/25/2023 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-01 (Soil)

Table 915 metals by EPA 6020B

Copper	14.2		8.46	mg/kg	10	B312623	09/26/2023	09/28/2023	
Lead	15.5		8.46	"	"	"	"	"	
Nickel	ND		8.46	"	"	"	"	"	
Selenium	0.339		0.0846	"	"	"	"	"	
Silver	0.252		0.0846	"	"	"	"	"	
Zinc	ND		84.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L707961	09/25/2023	10/02/2023	
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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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL02@2'

9/25/2023 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.801		0.101	mg/L	1	B312611	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312528	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.251		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

FL02@2'

9/25/2023 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 102 % 70-130 B312528 09/25/2023 09/26/2023

Metals by Saturated Paste by EPA 6010

Calcium	1.59	0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023
Magnesium	1.01	0.823	"	"	"	"	"
Sodium	4.36	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.007	0.002	mg/kg	1	B312527	09/25/2023	09/30/2023
2-Methylnaphthalene	0.020	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	0.013	0.010	"	2	"	"	10/02/2023
Benzo (a) pyrene	ND	0.080	"	4	"	"	10/02/2023 R-01, U
Benzo (b) fluoranthene	ND	0.080	"	"	"	"	" R-01, U
Benzo (k) fluoranthene	ND	0.080	"	"	"	"	" R-01, U
Chrysene	ND	0.040	"	2	"	"	10/02/2023 R-01, U
Dibenz (a,h) anthracene	ND	0.080	"	4	"	"	10/02/2023 R-01, U
Fluoranthene	ND	0.020	"	1	"	"	09/30/2023 U
Fluorene	ND	0.020	"	"	"	"	" U

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL02@2'

9/25/2023 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.080	mg/kg	4	B312527	09/25/2023	10/02/2023	R-01, U
Naphthalene	0.008		0.002	"	1	"	"	09/30/2023	
Pyrene	ND		0.040	"	2	"	"	10/02/2023	R-01, U

Surrogate: Fluorene-d10	99.4 %		60-130			"	"	09/30/2023	
Surrogate: Anthracene-d10	97.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	130 %		60-130			"	"	10/02/2023	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	10/02/2023	

pH in Soil by 9045D

pH	8.13			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	3.82		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.779		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.60		0.0934	mg/kg	10	B312623	09/26/2023	09/28/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

FL02@2'

9/25/2023 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309578-02 (Soil)

Table 915 metals by EPA 6020B

Barium	173		9.34	mg/kg	10	B312623	09/26/2023	09/28/2023	
Cadmium	0.390		0.0934	"	"	"	"	"	
Copper	18.1		9.34	"	"	"	"	"	
Lead	18.5		9.34	"	"	"	"	"	
Nickel	10.1		9.34	"	"	"	"	"	
Selenium	0.549		0.0934	"	"	"	"	"	
Silver	0.182		0.0934	"	"	"	"	"	
Zinc	ND		93.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.25	2.56	mg/Kg	5	L707961	09/25/2023	10/02/2023	
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Ensolum
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL03@2'

9/25/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.689		0.100	mg/L	1	B312611	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312528	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.1 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL03@2'

9/25/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.1 %		70-130			B31252 8	09/25/2023	09/26/2023	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.03	0.499	meq/L	10	[CALC]		09/26/2023	09/27/2023	
Magnesium	0.937	0.823	"	"	"	"	"	"	
Sodium	2.78	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B312527		09/25/2023	09/30/2023	U
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL03@2'

9/25/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B312527	09/25/2023	09/30/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	2.28		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.626		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL03@2'

9/25/2023 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309578-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.25		0.0883	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	79.2		8.83	"	"	"	"	"	
Cadmium	0.166		0.0883	"	"	"	"	"	
Copper	10.3		8.83	"	"	"	"	"	
Lead	12.9		8.83	"	"	"	"	"	
Nickel	ND		8.83	"	"	"	"	"	
Selenium	0.235		0.0883	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	
Zinc	ND		88.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L707961	09/25/2023	10/02/2023	
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL04@2'

9/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.458		0.0995	mg/L	1	B312612	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312528	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	130 %		70-130			"	"	"	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL04@2'

9/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	85.0 %		70-130			B31252 8	09/25/2023	09/26/2023	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.68	0.499	meq/L	10	[CALC]		09/26/2023	09/27/2023	
Magnesium	1.83	0.823	"	"	"	"	"	"	
Sodium	4.27	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B312527		09/25/2023	09/30/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL04@2'

9/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B312527	09/25/2023	09/30/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.43			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	2.57		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.03		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
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 Project: KMG - McPeek 3-18 WH

FL04@2'

9/25/2023 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309578-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.57		0.0951	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	129		9.51	"	"	"	"	"	
Cadmium	0.286		0.0951	"	"	"	"	"	
Copper	24.3		9.51	"	"	"	"	"	
Lead	20.7		9.51	"	"	"	"	"	
Nickel	ND		9.51	"	"	"	"	"	
Selenium	0.363		0.0951	"	"	"	"	"	
Silver	0.237		0.0951	"	"	"	"	"	
Zinc	ND		95.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L707961	09/25/2023	10/02/2023	
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL05@2'

9/25/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.876		0.101	mg/L	1	B312612	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312528	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

FL05@2'

9/25/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	116 %		70-130			B31252 8	09/25/2023	09/26/2023	
Surrogate: 4-Bromofluorobenzene	120 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	22.8		0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023	
Magnesium	14.4		0.823	"	"	"	"	"	
Sodium	16.0		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312527	09/25/2023	09/30/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL05@2'

9/25/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B312527	09/25/2023	09/30/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	90.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.40			pH Units	1	B312628	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	3.70		0.0100	SAR	1	B312617	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.93		0.00500	mmhos/cm	1	B312628	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL05@2'

9/25/2023 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309578-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.30	0.0901	0.0901	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	90.4	9.01	9.01	"	"	"	"	"	
Cadmium	0.359	0.0901	0.0901	"	"	"	"	"	
Copper	17.6	9.01	9.01	"	"	"	"	"	
Lead	18.7	9.01	9.01	"	"	"	"	"	
Nickel	ND	9.01	9.01	"	"	"	"	"	
Selenium	0.389	0.0901	0.0901	"	"	"	"	"	
Silver	0.196	0.0901	0.0901	"	"	"	"	"	
Zinc	ND	90.1	90.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L707962	09/25/2023	10/03/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL06@2'

9/25/2023 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.677		0.100	mg/L	1	B312612	09/26/2023	09/27/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312530	09/25/2023	09/26/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312528	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL06@2'

9/25/2023 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	81.9 %		70-130			B31252 8	09/25/2023	09/26/2023	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.49		0.499	meq/L	10	[CALC]	09/26/2023	09/27/2023	
Magnesium	1.04		0.823	"	"	"	"	"	
Sodium	4.66		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312527	09/25/2023	09/30/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL06@2'

9/25/2023 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-06 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B312527	09/25/2023	09/30/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B312630	09/26/2023	09/27/2023	
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SAR by 20B Saturated Paste

SAR	4.14		0.0100	SAR	1	B312618	09/26/2023	09/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.705		0.00500	mmhos/cm	1	B312630	09/26/2023	09/27/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL06@2'

9/25/2023 3:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.81	0.0991	0.0991	mg/kg	10	B312623	09/26/2023	09/28/2023	
Barium	69.8	9.91	9.91	"	"	"	"	"	
Cadmium	0.129	0.0991	0.0991	"	"	"	"	"	
Copper	ND	9.91	9.91	"	"	"	"	"	
Lead	ND	9.91	9.91	"	"	"	"	"	
Nickel	ND	9.91	9.91	"	"	"	"	"	
Selenium	0.142	0.0991	0.0991	"	"	"	"	"	
Silver	ND	0.0991	0.0991	"	"	"	"	"	
Zinc	ND	99.1	99.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L707962	09/25/2023	10/03/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW01@3'
9/25/2023 4:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-07 (Water)

Anions by IC 300.0

Chloride	196		31.2	mg/L	125	B312607	09/26/2023	09/27/2023	
Sulfate	233		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	47.4		2.00	ug/L	1	B312537	09/25/2023	09/26/2023	
1,3,5-Trimethylbenzene	17.0		2.00	"	"	"	"	"	
Benzene	5.95		1.00	"	"	"	"	"	
Ethylbenzene	13.6		1.00	"	"	"	"	"	
Naphthalene	38.6		2.00	"	"	"	"	"	
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	102		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1290		5.00	mg/L	1	B312636	09/26/2023	09/26/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW02@3'
9/25/2023 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-08 (Water)

Anions by IC 300.0

Chloride	254		31.2	mg/L	125	B312607	09/26/2023	09/27/2023	
Sulfate	302		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312537	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	4.91		2.00	"	"	"	"	"	
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1370		5.00	mg/L	1	B312636	09/26/2023	09/26/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW03@3'
9/25/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-09 (Water)

Anions by IC 300.0

Chloride	289		31.2	mg/L	125	B312607	09/26/2023	09/27/2023	
Sulfate	891		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312537	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2140		5.00	mg/L	1	B312636	09/26/2023	09/26/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW04@3'
9/25/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-10 (Water)

Anions by IC 300.0

Chloride	341		31.2	mg/L	125	B312607	09/26/2023	09/27/2023	
Sulfate	984		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312537	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	3.75		1.00	"	"	"	"	"	
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	7.52		1.00	"	"	"	"	"	
Xylenes, total	5.92		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2170		5.00	mg/L	1	B312636	09/26/2023	09/26/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW05@3'
9/25/2023 4:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-11 (Water)

Anions by IC 300.0

Chloride	339		31.2	mg/L	125	B312607	09/26/2023	09/27/2023	
Sulfate	978		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312537	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	3.46		1.00	"	"	"	"	"	
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	7.06		1.00	"	"	"	"	"	
Xylenes, total	5.46		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2250		5.00	mg/L	1	B312636	09/26/2023	09/26/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW06@3'
9/25/2023 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309578-12 (Water)

Anions by IC 300.0

Chloride	207		31.2	mg/L	125	B312607	09/26/2023	09/27/2023	
Sulfate	441		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312537	09/25/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1360		5.00	mg/L	1	B312636	09/26/2023	09/26/2023	
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Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312528 - EPA 5030 (soil)

Blank (B312528-BLK1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	118		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	108		70-130			

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312528 - EPA 5030 (soil)

LCS (B312528-BS1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.115	0.00200	"	0.100		115	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		117	70-130			

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2528 - EPA 5030 (soil)

Matrix Spike (B3I2528-MS1)	Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.00380	"	0.100	0.00198	102	70-130			
Toluene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		116	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312528 - EPA 5030 (soil)

Matrix Spike Dup (B312528-MSD1)	Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	ND	118	70-130	8.63	20	
1,3,5-Trimethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130	11.7	20	
Benzene	0.0986	0.00200	"	0.100	ND	98.6	70-130	5.89	20	
Ethylbenzene	0.128	0.00200	"	0.100	ND	128	70-130	16.6	20	
Naphthalene	0.114	0.00380	"	0.100	0.00198	112	70-130	9.76	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	10.4	20	
o-Xylene	0.133	0.00200	"	0.100	ND	133	70-130	17.0	20	QM-07
m,p-Xylene	0.231	0.00400	"	0.200	ND	115	70-130	16.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		119	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312530 - EPA 3550B										
Blank (B312530-BLK1)										
					Prepared: 09/25/2023 Analyzed: 09/25/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.8	50-150			

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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 B312530 - EPA 3550B

LCS (B312530-BS1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

Diesel (C10-C28)	930	50.0	mg/kg	1000		93.0	70-130			
Residual Range Organics (C28-C40)	918	200	"	1000		91.8	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.7	50-150			

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 Project: KMG - McPeek 3-18 WH

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 B3I2530 - EPA 3550B

Matrix Spike (B3I2530-MS1)	Source: Y309574-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
Diesel (C10-C28)	917	50.0	mg/kg	1000	ND	91.7	70-130			
Residual Range Organics (C28-C40)	889	200	"	1000	ND	88.9	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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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 B312530 - EPA 3550B

Matrix Spike Dup (B312530-MSD1)	Source: Y309574-01			Prepared: 09/25/2023 Analyzed: 09/25/2023						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	2.63	35	
Residual Range Organics (C28-C40)	875	200	"	1000	ND	87.5	70-130	1.62	35	
<i>Surrogate: o-Terphenyl</i>	55		"	49.8		110	50-150			

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 Project: KMG - McPeek 3-18 WH

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 B312537 - EPA 5030B (Water)

Blank (B312537-BLK1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5	92.2		70-130			
Surrogate: Toluene-d8	61		"	62.5	98.2		70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	92.9		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312537 - EPA 5030B (Water)

LCS (B312537-BS1)

Prepared: 09/25/2023 Analyzed: 09/25/2023

1,2,4-Trimethylbenzene	43.4	2.00	ug/L	50.0		86.9	70-130			
1,3,5-Trimethylbenzene	43.2	2.00	"	50.0		86.5	70-130			
Benzene	40.0	1.00	"	50.0		80.0	70-130			
Ethylbenzene	40.3	1.00	"	50.0		80.6	70-130			
m,p-Xylene	82.5	2.00	"	100		82.5	70-130			
Naphthalene	41.9	2.00	"	50.0		83.8	70-130			
o-Xylene	40.5	1.00	"	50.0		81.1	70-130			
Toluene	41.3	1.00	"	50.0		82.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		88.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312537 - EPA 5030B (Water)

Matrix Spike (B312537-MS1)	Source: Y309578-07			Prepared: 09/25/2023 Analyzed: 09/25/2023						
1,2,4-Trimethylbenzene	94.2	2.00	ug/L	50.0	47.4	93.8	70-130			
1,3,5-Trimethylbenzene	63.6	2.00	"	50.0	17.0	93.2	70-130			
Benzene	45.7	1.00	"	50.0	5.95	79.5	70-130			
Ethylbenzene	57.8	1.00	"	50.0	13.6	88.3	70-130			
m,p-Xylene	191	2.00	"	100	102	88.7	70-130			
Naphthalene	87.3	2.00	"	50.0	38.6	97.4	70-130			
o-Xylene	43.1	1.00	"	50.0	0.320	85.5	70-130			
Toluene	43.2	1.00	"	50.0	0.940	84.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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 Project: KMG - McPeek 3-18 WH

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 B312537 - EPA 5030B (Water)

Matrix Spike Dup (B312537-MSD1)	Source: Y309578-07			Prepared: 09/25/2023 Analyzed: 09/25/2023						
1,2,4-Trimethylbenzene	91.6	2.00	ug/L	50.0	47.4	88.4	70-130	2.90	20	
1,3,5-Trimethylbenzene	60.7	2.00	"	50.0	17.0	87.4	70-130	4.65	20	
Benzene	44.6	1.00	"	50.0	5.95	77.3	70-130	2.46	20	
Ethylbenzene	57.0	1.00	"	50.0	13.6	86.7	70-130	1.45	20	
m,p-Xylene	185	2.00	"	100	102	83.0	70-130	3.00	20	
Naphthalene	84.1	2.00	"	50.0	38.6	90.9	70-130	3.79	20	
o-Xylene	41.7	1.00	"	50.0	0.320	82.7	70-130	3.30	20	
Toluene	42.2	1.00	"	50.0	0.940	82.6	70-130	2.34	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.9	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

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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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Metals by EPA 6000/7000 Series Methods - 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 B312623 - EPA 3050B

Blank (B312623-BLK1)

Prepared: 09/26/2023 Analyzed: 09/28/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B312623-BS1)

Prepared: 09/26/2023 Analyzed: 09/28/2023

Arsenic	0.0492	0.000100	mg/kg	0.0500		98.5	80-120			
Barium	4.95	0.0100	"	5.00		99.1	80-120			
Cadmium	0.0502	0.000100	"	0.0500		100	80-120			
Copper	0.526	0.0100	"	0.500		105	80-120			
Lead	0.0493	0.0100	"	0.0500		98.5	80-120			
Nickel	0.0514	0.0100	"	0.0500		103	80-120			
Selenium	0.0470	0.000100	"	0.0500		94.0	80-120			
Silver	0.0535	0.000100	"	0.0500		107	80-120			
Zinc	0.494	0.100	"	0.500		98.7	80-120			

Matrix Spike (B312623-MS1)

Source: Y309575-04

Prepared: 09/26/2023 Analyzed: 09/28/2023

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Metals by EPA 6000/7000 Series Methods - 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 B3I2623 - EPA 3050B

Matrix Spike (B3I2623-MS1)		Source: Y309575-04			Prepared: 09/26/2023 Analyzed: 09/28/2023					
Arsenic	7.29	0.0863	mg/kg	4.31	1.97	123	75-125			
Barium	488	8.63	"	431	40.0	104	75-125			
Cadmium	4.76	0.0863	"	4.31	0.112	108	75-125			
Copper	55.7	8.63	"	43.1	7.19	113	75-125			
Lead	13.9	8.63	"	4.31	6.32	175	75-125			QM-07
Nickel	16.1	8.63	"	4.31	8.07	185	75-125			QM-07
Selenium	4.36	0.0863	"	4.31	0.121	98.3	75-125			
Silver	4.92	0.0863	"	4.31	0.0109	114	75-125			
Zinc	85.5	86.3	"	43.1	29.6	130	75-125			QM-07

Matrix Spike Dup (B3I2623-MSD1)		Source: Y309575-04			Prepared: 09/26/2023 Analyzed: 09/28/2023					
Arsenic	7.90	0.0974	mg/kg	4.87	1.97	122	75-125	7.99	20	
Barium	547	9.74	"	487	40.0	104	75-125	11.3	20	
Cadmium	5.20	0.0974	"	4.87	0.112	105	75-125	8.88	20	
Copper	61.9	9.74	"	48.7	7.19	112	75-125	10.4	20	
Lead	14.6	9.74	"	4.87	6.32	171	75-125	5.23	20	QM-07
Nickel	17.1	9.74	"	4.87	8.07	185	75-125	6.13	20	QM-07
Selenium	4.71	0.0974	"	4.87	0.121	94.2	75-125	7.64	20	
Silver	5.31	0.0974	"	4.87	0.0109	109	75-125	7.76	20	
Zinc	94.8	97.4	"	48.7	29.6	134	75-125	10.3	20	QM-07

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 Project: KMG - McPeek 3-18 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B312527 - EPA 3580

Blank (B312527-BLK1)

Prepared: 09/25/2023 Analyzed: 09/29/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

LCS (B312527-BS1)

Prepared: 09/25/2023 Analyzed: 09/29/2023

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200		102	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200		101	70-130			
Acenaphthene	0.200	0.020	"	0.200		100	70-130			
Anthracene	0.198	0.020	"	0.200		98.9	70-130			

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 Project: KMG - McPeek 3-18 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2527 - EPA 3580

LCS (B3I2527-BS1)

Prepared: 09/25/2023 Analyzed: 09/29/2023

Benzo (a) anthracene	0.185	0.005	mg/kg	0.200		92.4	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.6	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200		99.3	70-130			
Benzo (k) fluoranthene	0.201	0.020	"	0.200		100	70-130			
Chrysene	0.226	0.020	"	0.200		113	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.3	70-130			
Fluoranthene	0.215	0.020	"	0.200		108	70-130			
Fluorene	0.200	0.020	"	0.200		99.9	70-130			
Indeno (1,2,3-cd) pyrene	0.174	0.020	"	0.200		87.0	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.4	70-130			
Pyrene	0.190	0.020	"	0.200		95.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.9	60-130			

Matrix Spike (B3I2527-MS1)

Source: Y309568-01

Prepared: 09/25/2023 Analyzed: 09/29/2023

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	103	70-130			
Anthracene	0.187	0.020	"	0.200	0.0005	93.3	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.200	0.0004	102	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200	0.0004	101	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	99.8	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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2527 - EPA 3580

Matrix Spike (B3I2527-MS1)		Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/29/2023					
Benzo (k) fluoranthene	0.211	0.020	mg/kg	0.200	0.0005	105	70-130			
Chrysene	0.206	0.020	"	0.200	0.0005	103	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.221	0.020	"	0.200	ND	110	70-130			
Fluorene	0.199	0.020	"	0.200	ND	99.3	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.198	0.020	"	0.200	ND	98.9	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.0	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	180		"	200		91.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

Matrix Spike Dup (B3I2527-MSD1)		Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/29/2023					
1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	ND	105	70-130	1.11	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	ND	102	70-130	0.878	20	
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130	0.216	20	
Anthracene	0.192	0.020	"	0.200	0.0005	95.6	70-130	2.47	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.0004	94.5	70-130	7.42	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130	0.592	20	
Benzo (b) fluoranthene	0.207	0.020	"	0.200	0.0004	103	70-130	2.48	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	ND	101	70-130	1.50	20	
Benzo (k) fluoranthene	0.210	0.020	"	0.200	0.0005	105	70-130	0.710	20	
Chrysene	0.216	0.020	"	0.200	0.0005	108	70-130	4.72	20	
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.3	70-130	6.48	20	
Fluoranthene	0.222	0.020	"	0.200	ND	111	70-130	0.661	20	

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B312527 - EPA 3580

Matrix Spike Dup (B312527-MSD1)	Source: Y309568-01			Prepared: 09/25/2023 Analyzed: 09/29/2023						
Fluorene	0.205	0.020	mg/kg	0.200	ND	103	70-130	3.40	20	
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200	ND	90.1	70-130	13.5	20	
Naphthalene	0.211	0.002	"	0.200	ND	106	70-130	2.68	20	
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130	5.49	20	
Pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	0.613	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	180		"	200		91.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2607 - Filter .45um non acidified										
Blank (B3I2607-BLK1)					Prepared: 09/26/2023 Analyzed: 09/27/2023					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B3I2607-BS1)					Prepared: 09/26/2023 Analyzed: 09/27/2023					
Chloride	3.96	0.250	mg/L	4.00		99.0	90-110			
Sulfate	3.87	0.250	"	4.00		96.8	90-110			
Matrix Spike (B3I2607-MS1)		Source: Y309514-04			Prepared: 09/26/2023 Analyzed: 09/27/2023					
Chloride	644		mg/L	500	117	105	90-110			
Sulfate	512		"	500	8.05	101	90-110			
Matrix Spike Dup (B3I2607-MSD1)		Source: Y309514-04			Prepared: 09/26/2023 Analyzed: 09/27/2023					
Chloride	652		mg/L	500	117	107	90-110	1.29	5	
Sulfate	525		"	500	8.05	103	90-110	2.50	5	
Batch B3I2611 - DTPA Sorbitol Preparation										
Blank (B3I2611-BLK1)					Prepared: 09/26/2023 Analyzed: 09/27/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3I2611-DUP1)		Source: Y309575-03			Prepared: 09/26/2023 Analyzed: 09/27/2023					
Boron	0.363	0.0986	mg/L		0.319			12.8	50	
Batch B3I2612 - DTPA Sorbitol Preparation										
Blank (B3I2612-BLK1)					Prepared: 09/26/2023 Analyzed: 09/27/2023					
Boron	ND	0.100	mg/L							

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - 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 B3I2612 - DTPA Sorbitol Preparation

Duplicate (B3I2612-DUP1) Source: Y309578-04 Prepared: 09/26/2023 Analyzed: 09/27/2023

Boron	0.520	0.101	mg/L		0.458			12.6	50	
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Batch B3I2617 - Saturated Paste Metals

Blank (B3I2617-BLK1) Prepared: 09/26/2023 Analyzed: 09/27/2023

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3I2617-DUP1) Source: Y309575-05 Prepared: 09/26/2023 Analyzed: 09/27/2023

SAR	ND	0.0100	SAR		6.63				200	
Calcium PPM	289	10.0	mg/L		338			15.7	50	
Magnesium PPM	146	10.0	"		164			11.9	50	
Sodium PPM	560	10.0	"		594			5.93	50	

Batch B3I2618 - Saturated Paste Metals

Blank (B3I2618-BLK1) Prepared: 09/26/2023 Analyzed: 09/27/2023

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3I2618-DUP1) Source: Y309580-01 Prepared: 09/26/2023 Analyzed: 09/27/2023

Calcium PPM	12.6	10.0	mg/L		18.9			40.4	50	
SAR	ND	0.0100	SAR		9.17				200	
Magnesium PPM	2.13	10.0	mg/L		3.15			38.6	50	

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2618 - Saturated Paste Metals										
Duplicate (B3I2618-DUP1)		Source: Y309580-01			Prepared: 09/26/2023 Analyzed: 09/27/2023					
Sodium PPM	77.8	10.0	mg/L		164			71.0	50	QR-DUP
Batch B3I2636 - NO PREP										
Blank (B3I2636-BLK1)		Prepared: 09/26/2023 Analyzed: 09/26/2023								
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3I2636-BS1)		Prepared: 09/26/2023 Analyzed: 09/26/2023								
Total Dissolved Solids	1010	5.00	mg/L	1000		101	90-110			
Duplicate (B3I2636-DUP1)		Source: Y309434-04			Prepared: 09/26/2023 Analyzed: 09/26/2023					
Total Dissolved Solids	3120	5.00	mg/L		3170			1.65	10	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Saturated Paste - 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 B3I2628 - Saturated Paste pH/EC

Blank (B3I2628-BLK1)

Prepared: 09/26/2023 Analyzed: 09/27/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I2628-DUP1)

Source: Y309575-05

Prepared: 09/26/2023 Analyzed: 09/27/2023

Specific Conductance (EC) 4.11 0.00500 mmhos/cm 4.38 6.24 25

pH 8.01 pH Units 8.00 0.125 25

Batch B3I2630 - Saturated Paste pH/EC

Blank (B3I2630-BLK1)

Prepared: 09/26/2023 Analyzed: 09/27/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I2630-DUP1)

Source: Y309580-01

Prepared: 09/26/2023 Analyzed: 09/27/2023

Specific Conductance (EC) 0.468 0.00500 mmhos/cm 0.618 27.6 25 QR-DUP

pH 8.77 pH Units 8.89 1.36 25

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L707962 -										
DUP (L 87510-DUP)		Source: 87510			Prepared: Analyzed: 10/03/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 87510-MS)		Source: 87510			Prepared: Analyzed: 10/03/2023					
Chromium, Hexavalent	33.8	2.5	mg/Kg	39.6	<1.22	85	75-125			
LCS (LCS)		Prepared: Analyzed: 10/03/2023								
Chromium, Hexavalent	7.13	0.5	mg/Kg	8		89	75-125			
LRB (LRB)		Prepared: Analyzed: 10/03/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707961 -

DUP (L 87496-DUP)

Source: 87496

Prepared: Analyzed: 10/02/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
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MS (L 87496-MS)

Source: 87496

Prepared: Analyzed: 10/02/2023

Chromium, Hexavalent	36.4	2.5	mg/Kg	39	<1.22	93	75-125			
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- 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 on a wet weight basis.

Origins Laboratory, Inc.



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October 09, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - McPeek 3-18 WH

Project Number - 09A1417397

Attached are your analytical results for KMG - McPeek 3-18 WH received by Origins Laboratory, Inc. September 26, 2023. This project is associated with Origins project number Y309625-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL07@2'	Y309625-01	Soil	September 26, 2023 14:34	09/26/2023 16:10

Origins Laboratory, Inc.



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

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB09425

Client: Ensolum

Checklist Completed by: JH

Client Project ID: McPeck 3-18 WH

Date/time completed: 9/20/12

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

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

Cooler Number/Temperature: 11 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

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 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) JH

Date/Time Reviewed 9/20/12

Origins Laboratory, Inc.

J. Bynon

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL07@2'

9/26/2023 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309625-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.102	mg/L	1	B312719	09/27/2023	09/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312648	09/26/2023	09/26/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 89.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312650	09/26/2023	09/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL07@2'

9/26/2023 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309625-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.1 %		70-130			B31265 0	09/26/2023	09/26/2023	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.936		0.499	meq/L	10	[CALC]	09/27/2023	09/28/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.866		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707557	09/29/2023	09/29/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00105	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000664	0.000624	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000866	0.000394	0.00067	"	"	"	"	"	

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL07@2'

9/26/2023 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309625-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L707557	09/29/2023	09/29/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000972	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B312723	09/27/2023	09/28/2023	
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SAR by 20B Saturated Paste

SAR	1.10		0.0100	SAR	1	B312714	09/27/2023	09/28/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.335		0.00500	mmhos/cm	1	B312723	09/27/2023	09/28/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.37		0.0881	mg/kg	10	B312706	09/27/2023	09/29/2023	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL07@2'

9/26/2023 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309625-01 (Soil)

Table 915 metals by EPA 6020B

Barium	32.0		8.81	mg/kg	10	B312706	09/27/2023	09/29/2023	
Cadmium	0.101		0.0881	"	"	"	"	"	
Copper	ND		8.81	"	"	"	"	"	
Lead	ND		8.81	"	"	"	"	"	
Nickel	ND		8.81	"	"	"	"	"	
Selenium	ND		0.0881	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	ND		88.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L708283	09/26/2023	10/03/2023	
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312648 - EPA 3550B										
Blank (B312648-BLK1)										
					Prepared: 09/26/2023 Analyzed: 09/26/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.4	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312648 - EPA 3550B

LCS (B312648-BS1)

Prepared: 09/26/2023 Analyzed: 09/26/2023

Diesel (C10-C28)	864	50.0	mg/kg	1000		86.4	70-130			
Residual Range Organics (C28-C40)	978	200	"	1000		97.8	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.9	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2648 - EPA 3550B

Matrix Spike (B3I2648-MS1)	Source: Y309623-04			Prepared: 09/26/2023 Analyzed: 09/26/2023						
Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.4	50-150			

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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 B3I2648 - EPA 3550B

Matrix Spike Dup (B3I2648-MSD1)	Source: Y309623-04			Prepared: 09/26/2023 Analyzed: 09/26/2023						
Diesel (C10-C28)	824	50.0	mg/kg	1000	ND	82.4	70-130	4.38	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	2.41	35	
Surrogate: o-Terphenyl	41		"	49.8		82.6	50-150			

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 Project: KMG - McPeek 3-18 WH

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 B312650 - EPA 5030 (soil)

Blank (B312650-BLK1)

Prepared: 09/26/2023 Analyzed: 09/26/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	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	94.0		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.8		70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312650 - EPA 5030 (soil)

LCS (B312650-BS1)

Prepared: 09/26/2023 Analyzed: 09/26/2023

1,2,4-Trimethylbenzene	0.0949	0.00200	mg/kg	0.100		94.9	70-130			
1,3,5-Trimethylbenzene	0.0957	0.00200	"	0.100		95.7	70-130			
Benzene	0.0876	0.00200	"	0.100		87.6	70-130			
Ethylbenzene	0.0899	0.00200	"	0.100		89.9	70-130			
Naphthalene	0.0952	0.00380	"	0.100		95.2	70-130			
Toluene	0.0882	0.00200	"	0.100		88.2	70-130			
o-Xylene	0.0908	0.00200	"	0.100		90.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312650 - EPA 5030 (soil)

Matrix Spike (B312650-MS1)	Source: Y309622-01			Prepared: 09/26/2023 Analyzed: 09/26/2023						
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130			
1,3,5-Trimethylbenzene	0.0935	0.00200	"	0.100	ND	93.5	70-130			
Benzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Ethylbenzene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
Naphthalene	0.0960	0.00380	"	0.100	ND	96.0	70-130			
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
o-Xylene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312650 - EPA 5030 (soil)

Matrix Spike Dup (B312650-MSD1)	Source: Y309622-01			Prepared: 09/26/2023 Analyzed: 09/26/2023						
1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	ND	90.4	70-130	2.88	20	
1,3,5-Trimethylbenzene	0.0896	0.00200	"	0.100	ND	89.6	70-130	4.28	20	
Benzene	0.0889	0.00200	"	0.100	ND	88.9	70-130	1.30	20	
Ethylbenzene	0.0853	0.00200	"	0.100	ND	85.3	70-130	1.77	20	
Naphthalene	0.0897	0.00380	"	0.100	ND	89.7	70-130	6.80	20	
Toluene	0.0894	0.00200	"	0.100	ND	89.4	70-130	1.47	20	
o-Xylene	0.0858	0.00200	"	0.100	ND	85.8	70-130	2.51	20	
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.8	70-130	1.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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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Metals by EPA 6000/7000 Series Methods - 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 B3I2706 - EPA 3050B

Blank (B3I2706-BLK1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3I2706-BS1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Arsenic	0.0543	0.000100	mg/kg	0.0500		109	80-120			
Barium	5.33	0.0100	"	5.00		107	80-120			
Cadmium	0.0555	0.000100	"	0.0500		111	80-120			
Copper	0.541	0.0100	"	0.500		108	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0530	0.0100	"	0.0500		106	80-120			
Selenium	0.0519	0.000100	"	0.0500		104	80-120			
Silver	0.0577	0.000100	"	0.0500		115	80-120			
Zinc	0.520	0.100	"	0.500		104	80-120			

Matrix Spike (B3I2706-MS1)

Source: Y309551-01

Prepared: 09/27/2023 Analyzed: 09/29/2023

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 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Metals by EPA 6000/7000 Series Methods - 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 B3I2706 - EPA 3050B

Matrix Spike (B3I2706-MS1)		Source: Y309551-01			Prepared: 09/27/2023 Analyzed: 09/29/2023					
Arsenic	7.84	0.0909	mg/kg	4.54	2.66	114	75-125			
Barium	565	9.09	"	454	62.6	111	75-125			
Cadmium	5.28	0.0909	"	4.54	0.0923	114	75-125			
Copper	53.4	9.09	"	45.4	4.62	107	75-125			
Lead	9.41	9.09	"	4.54	4.44	109	75-125			
Nickel	9.70	9.09	"	4.54	4.79	108	75-125			
Selenium	4.69	0.0909	"	4.54	0.0615	102	75-125			
Silver	5.33	0.0909	"	4.54	0.0202	117	75-125			
Zinc	69.2	90.9	"	45.4	20.4	107	75-125			
Matrix Spike Dup (B3I2706-MSD1)		Source: Y309551-01			Prepared: 09/27/2023 Analyzed: 09/29/2023					
Arsenic	7.33	0.0876	mg/kg	4.38	2.66	107	75-125	6.75	20	
Barium	548	8.76	"	438	62.6	111	75-125	2.98	20	
Cadmium	4.99	0.0876	"	4.38	0.0923	112	75-125	5.78	20	
Copper	51.4	8.76	"	43.8	4.62	107	75-125	3.84	20	
Lead	9.33	8.76	"	4.38	4.44	112	75-125	0.857	20	
Nickel	9.36	8.76	"	4.38	4.79	104	75-125	3.65	20	
Selenium	4.52	0.0876	"	4.38	0.0615	102	75-125	3.64	20	
Silver	5.01	0.0876	"	4.38	0.0202	114	75-125	6.28	20	
Zinc	66.7	87.6	"	43.8	20.4	106	75-125	3.77	20	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - 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 B3I2714 - Saturated Paste Metals

Blank (B3I2714-BLK1)

Prepared: 09/27/2023 Analyzed: 09/28/2023

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3I2714-DUP1)

Source: Y309554-01

Prepared: 09/27/2023 Analyzed: 09/28/2023

Calcium PPM	20.1	10.0	mg/L		33.6			50.4	50	QR-DUP
SAR	ND	0.0100	SAR		4.08				200	
Magnesium PPM	4.19	10.0	mg/L		4.67			10.8	50	
Sodium PPM	91.4	10.0	"		95.2			4.09	50	

Batch B3I2719 - DTPA Sorbitol Preparation

Blank (B3I2719-BLK1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3I2719-DUP1)

Source: Y309623-06

Prepared: 09/27/2023 Analyzed: 09/29/2023

Boron	0.367	0.101	mg/L		0.385			4.85	50	
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Saturated Paste - 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 B312723 - Saturated Paste pH/EC

Blank (B312723-BLK1)

Prepared: 09/27/2023 Analyzed: 09/28/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B312723-DUP1)

Source: Y309554-01

Prepared: 09/27/2023 Analyzed: 09/28/2023

Specific Conductance (EC)	0.587	0.00500	mmhos/cm	0.520	12.3	25
pH	8.27		pH Units	8.34	0.843	25

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707557 - 3550B

MSD (L 83435-MSD-L707557)	Source: 83435			Prepared: 09/29/2023 Analyzed: 09/29/2023						
Chrysene	0.0999	0.00067	mg/Kg	0.162	<0.000624	61.6	30-130	6.6	30	
Acenaphthene	0.0925	0.00067	"	0.162	<0.000304	57	30-130	13.5	30	
Pyrene	0.0996	0.00067	"	0.162	<0.000643	61.4	30-130	6.1	30	
Naphthalene	0.0876	0.00201	"	0.162	<0.00145	54	30-130	11.4	30	
Indeno(1,2,3-cd)pyrene	0.12	0.00067	"	0.162	<0.000627	74	30-130	11.7	30	
Fluorene	0.0952	0.00067	"	0.162	<0.000286	58.7	30-130	12.1	30	
Fluoranthene	0.0996	0.00067	"	0.162	<0.000394	61.4	30-130	5.9	30	
Dibenz(a,h)anthracene	0.12	0.00067	"	0.162	<0.000614	74	30-130	15.3	30	
2-Methylnaphthalene	0.0894	0.00201	"	0.162	<0.00194	55.1	30-130	11.7	30	
1-Methylnaphthalene	0.0902	0.00201	"	0.162	<0.00109	55.6	30-130	12.8	30	
Benzo(a)anthracene	0.101	0.00067	"	0.162	<0.000493	62.3	30-130	8.6	30	
Benzo(k)fluoranthene	0.101	0.00067	"	0.162	<0.000437	62.3	30-130	2.9	30	
Anthracene	0.095	0.00067	"	0.162	<0.000334	58.6	30-130	9.9	30	
Benzo(a)pyrene	0.103	0.00067	"	0.162	<0.000468	63.5	30-130	7.1	30	
Benzo(b)fluoranthene	0.106	0.00067	"	0.162	<0.000585	65.4	30-130	4.8	30	
<i>Surrogate: Nitrobenzene-d5</i>	46.7		"	0.325	139	46.7	29-110			
<i>Surrogate: 2-Fluorobiphenyl</i>	50.1		"	0.325	147	50.1	33-115			
<i>Surrogate: 4-Terphenyl-d14</i>	52.9		"	0.325	155	52.9	33-122			

MS (L 83435-MS-L707557)	Source: 83435			Prepared: 09/29/2023 Analyzed: 09/29/2023						
Dibenz(a,h)anthracene	0.14	0.00067	mg/Kg	0.167	<0.000614	83.8	30-130			
Benzo(k)fluoranthene	0.104	0.00067	"	0.167	<0.000437	62.2	30-130			
Naphthalene	0.0781	0.00201	"	0.167	<0.00145	46.7	30-130			
Indeno(1,2,3-cd)pyrene	0.135	0.00067	"	0.167	<0.000627	80.8	30-130			
Fluoranthene	0.0938	0.00067	"	0.167	<0.000394	56.1	30-130			
Pyrene	0.0937	0.00067	"	0.167	<0.000643	56.1	30-130			
Chrysene	0.0935	0.00067	"	0.167	<0.000624	55.9	30-130			

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707557 - 3550B

MS (L 83435-MS-L707557)	Source: 83435			Prepared: 09/29/2023 Analyzed: 09/29/2023						
Benzo(a)pyrene	0.0959	0.00067	mg/Kg	0.167	<0.000468	57.4	30-130			
Benzo(a)anthracene	0.0926	0.00067	"	0.167	<0.000493	55.4	30-130			
Anthracene	0.086	0.00067	"	0.167	<0.000334	51.4	30-130			
Acenaphthene	0.0808	0.00067	"	0.167	<0.000304	48.3	30-130			
2-Methylnaphthalene	0.0795	0.00201	"	0.167	<0.00194	47.6	30-130			
1-Methylnaphthalene	0.0793	0.00201	"	0.167	<0.00109	47.4	30-130			
Benzo(b)fluoranthene	0.101	0.00067	"	0.167	<0.000585	60.4	30-130			
Fluorene	0.0843	0.00067	"	0.167	<0.000286	50.4	30-130			
Surrogate: Nitrobenzene-d5	39.3		"	0.333	139	39.3	29-110			
Surrogate: 4-Terphenyl-d14	48		"	0.333	155	48	33-122			
Surrogate: 2-Fluorobiphenyl	41.4		"	0.333	147	41.4	33-115			

LCS (LCS-L707557)	Prepared: 09/29/2023 Analyzed: 09/29/2023									
Pyrene	0.1	0.00067	mg/Kg	0.167		59.8	30-130			
Benzo(b)fluoranthene	0.108	0.00067	"	0.167		64.6	30-130			
Benzo(k)fluoranthene	0.102	0.00067	"	0.167		61	30-130			
Chrysene	0.1	0.00067	"	0.167		59.8	30-130			
Fluoranthene	0.0998	0.00067	"	0.167		59.7	30-130			
Indeno(1,2,3-cd)pyrene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(a)pyrene	0.101	0.00067	"	0.167		60.4	30-130			
Dibenz(a,h)anthracene	0.117	0.00067	"	0.167		70	30-130			
Naphthalene	0.0864	0.00201	"	0.167		51.7	30-130			
Anthracene	0.094	0.00067	"	0.167		56.2	30-130			
Acenaphthene	0.0899	0.00067	"	0.167		53.8	30-130			
2-Methylnaphthalene	0.0884	0.00201	"	0.167		52.9	30-130			
1-Methylnaphthalene	0.0889	0.00201	"	0.167		53.2	30-130			
Fluorene	0.0937	0.00067	"	0.167		56.1	30-130			

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707557 - 3550B

LCS (LCS-L707557)

Prepared: 09/29/2023 Analyzed: 09/29/2023

Benzo(a)anthracene	0.103	0.00067	mg/Kg	0.167		61.6	30-130			
Surrogate: Nitrobenzene-d5	48.3		"	0.333		48.3	29-110			
Surrogate: 4-Terphenyl-d14	56.7		"	0.333		56.7	33-122			
Surrogate: 2-Fluorobiphenyl	51.6		"	0.333		51.6	33-115			

LRB (LRB-L707557)

Prepared: 09/29/2023 Analyzed: 09/29/2023

Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	44.1		"	0.333		44.1	29-110			
Surrogate: 4-Terphenyl-d14	59.1		"	0.333		59.1	33-122			
Surrogate: 2-Fluorobiphenyl	45		"	0.333		45	33-115			

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L708283 -										
DUP (L 87527-DUP)		Source: 87527			Prepared: Analyzed: 10/03/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 87527-MS)		Source: 87527			Prepared: Analyzed: 10/03/2023					
Chromium, Hexavalent	37.4	2.55	mg/Kg	40.8	<1.24	92	75-125			
LCS (LCS)		Prepared: Analyzed: 10/03/2023								
Chromium, Hexavalent	7.04	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 10/03/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on 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.

October 10, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - McPeek 3-18 WH

Project Number - 09A1417397

Attached are your analytical results for KMG - McPeek 3-18 WH received by Origins Laboratory, Inc. September 27, 2023. This project is associated with Origins project number Y309690-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL08@3'	Y309690-01	Soil	September 27, 2023 12:10	09/27/2023 15:32

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-R WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4309990

Client: Ensolum

Client Project ID: McPeck 3-R WH

Checklist Completed by: JEH

Shipped Via: HD

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

Date/time completed: 9/27/13

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 05 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C

Thermometer ID: 7004

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 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) JEH

Date/Time Reviewed 9/27/13

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

FL08@3'

9/27/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309690-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.44		0.100	mg/L	1	B312809	09/28/2023	09/29/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312702	09/27/2023	09/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312731	09/27/2023	09/28/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL08@3'

9/27/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309690-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B31273 1	09/27/2023	09/28/2023	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.38		0.499	meq/L	10	[CALC]	09/28/2023	10/02/2023	
Magnesium	2.89		0.823	"	"	"	"	"	
Sodium	14.1		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707837	10/02/2023	10/02/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00151	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0106	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0209	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0208	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00369	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0111	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00381	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.013	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL08@3'

9/27/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309690-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.0272	0.000627	0.00067	mg/Kg	1	L707837	10/02/2023	10/02/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0167	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	41.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	41.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B312816	09/28/2023	09/29/2023	
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SAR by 20B Saturated Paste

SAR	6.21		0.0100	SAR	1	B312812	09/28/2023	10/02/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.86		0.00500	mmhos/cm	1	B312816	09/28/2023	09/29/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.84		0.0903	mg/kg	10	B312733	09/27/2023	09/29/2023	
Barium	109		9.03	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL08@3'

9/27/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y309690-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.571		0.0903	mg/kg	10	B312733	09/27/2023	09/29/2023	
Copper	19.1		9.03	"	"	"	"	"	
Lead	21.9		9.03	"	"	"	"	"	
Nickel	ND		9.03	"	"	"	"	"	U
Selenium	0.238		0.0903	"	"	"	"	"	
Silver	0.227		0.0903	"	"	"	"	"	
Zinc	ND		90.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.51	mg/Kg	5	L709180	09/27/2023	10/06/2023	
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Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312702 - EPA 3550B										
Blank (B312702-BLK1)										
					Prepared: 09/27/2023 Analyzed: 09/27/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.2	50-150			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312702 - EPA 3550B

LCS (B312702-BS1)

Prepared: 09/27/2023 Analyzed: 09/27/2023

Diesel (C10-C28)	814	50.0	mg/kg	1000		81.4	70-130			
Residual Range Organics (C28-C40)	997	200	"	1000		99.7	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.7	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2702 - EPA 3550B

Matrix Spike (B3I2702-MS1)	Source: Y309617-01			Prepared: 09/27/2023 Analyzed: 09/27/2023						
Diesel (C10-C28)	848	50.0	mg/kg	1000	ND	84.8	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
<i>Surrogate: o-Terphenyl</i>	41		"	49.8		82.6	50-150			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312702 - EPA 3550B

Matrix Spike Dup (B312702-MSD1)	Source: Y309617-01			Prepared: 09/27/2023 Analyzed: 09/27/2023						
Diesel (C10-C28)	822	50.0	mg/kg	1000	ND	82.2	70-130	3.07	35	
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130	0.616	35	
<i>Surrogate: o-Terphenyl</i>	40		"	49.8		80.8	50-150			

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 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2731 - EPA 5030 (soil)

Blank (B3I2731-BLK1)

Prepared: 09/27/2023 Analyzed: 09/27/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.6		70-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312731 - EPA 5030 (soil)

LCS (B312731-BS1)

Prepared: 09/27/2023 Analyzed: 09/27/2023

1,2,4-Trimethylbenzene	0.0888	0.00200	mg/kg	0.100		88.8	70-130			
1,3,5-Trimethylbenzene	0.0893	0.00200	"	0.100		89.3	70-130			
Benzene	0.0843	0.00200	"	0.100		84.3	70-130			
Ethylbenzene	0.0831	0.00200	"	0.100		83.1	70-130			
Naphthalene	0.0896	0.00380	"	0.100		89.6	70-130			
Toluene	0.0830	0.00200	"	0.100		83.0	70-130			
o-Xylene	0.0843	0.00200	"	0.100		84.3	70-130			
m,p-Xylene	0.170	0.00400	"	0.200		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	70-130			

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 Project: KMG - McPeek 3-18 WH

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 B3I2731 - EPA 5030 (soil)

Matrix Spike (B3I2731-MS1)	Source: Y309598-01			Prepared: 09/27/2023 Analyzed: 09/27/2023						
1,2,4-Trimethylbenzene	0.204	0.00200	mg/kg	0.100	0.0829	121	70-130			
1,3,5-Trimethylbenzene	0.356	0.00200	"	0.100	0.310	46.4	70-130			QM-07
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
Ethylbenzene	0.0742	0.00200	"	0.100	0.00104	73.2	70-130			
Naphthalene	0.223	0.00380	"	0.100	0.119	104	70-130			
Toluene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
o-Xylene	0.139	0.00200	"	0.100	0.0616	77.2	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	0.0268	77.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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 Project: KMG - McPeek 3-18 WH

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 B312731 - EPA 5030 (soil)

Matrix Spike Dup (B312731-MSD1)	Source: Y309598-01			Prepared: 09/27/2023 Analyzed: 09/27/2023						
1,2,4-Trimethylbenzene	0.172	0.00200	mg/kg	0.100	0.0829	88.7	70-130	17.3	20	
1,3,5-Trimethylbenzene	0.353	0.00200	"	0.100	0.310	43.2	70-130	0.897	20	QM-07
Benzene	0.0868	0.00200	"	0.100	ND	86.8	70-130	1.49	20	
Ethylbenzene	0.0737	0.00200	"	0.100	0.00104	72.7	70-130	0.703	20	
Naphthalene	0.221	0.00380	"	0.100	0.119	102	70-130	1.05	20	
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130	0.593	20	
o-Xylene	0.136	0.00200	"	0.100	0.0616	74.8	70-130	1.77	20	
m,p-Xylene	0.167	0.00400	"	0.200	0.0268	70.1	70-130	8.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Jeremy Espinoza
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 Project: KMG - McPeek 3-18 WH

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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Metals by EPA 6000/7000 Series Methods - 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 B3I2733 - EPA 3050B

Blank (B3I2733-BLK1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B3I2733-BS1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Arsenic	0.0534	0.000100	mg/kg	0.0500		107	80-120			
Barium	5.16	0.0100	"	5.00		103	80-120			
Cadmium	0.0539	0.000100	"	0.0500		108	80-120			
Copper	0.534	0.0100	"	0.500		107	80-120			
Lead	0.0521	0.0100	"	0.0500		104	80-120			
Nickel	0.0525	0.0100	"	0.0500		105	80-120			
Selenium	0.0512	0.000100	"	0.0500		102	80-120			
Silver	0.0553	0.000100	"	0.0500		111	80-120			
Zinc	0.515	0.100	"	0.500		103	80-120			

Matrix Spike (B3I2733-MS1)

Source: Y309597-01

Prepared: 09/27/2023 Analyzed: 09/29/2023

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Metals by EPA 6000/7000 Series Methods - 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 B3I2733 - EPA 3050B

Matrix Spike (B3I2733-MS1)		Source: Y309597-01			Prepared: 09/27/2023 Analyzed: 09/29/2023					
Arsenic	7.93	0.0991	mg/kg	4.96	1.99	120	75-125			
Barium	602	9.91	"	496	41.9	113	75-125			
Cadmium	5.97	0.0991	"	4.96	0.0603	119	75-125			
Copper	60.9	9.91	"	49.6	5.26	112	75-125			
Lead	36.3	9.91	"	4.96	283	NR	75-125			QM-07
Nickel	9.04	9.91	"	4.96	3.35	115	75-125			U
Selenium	5.48	0.0991	"	4.96	0.0424	110	75-125			
Silver	6.07	0.0991	"	4.96	0.0365	122	75-125			
Zinc	69.9	99.1	"	49.6	14.3	112	75-125			U

Matrix Spike Dup (B3I2733-MSD1)		Source: Y309597-01			Prepared: 09/27/2023 Analyzed: 09/29/2023					
Arsenic	7.01	0.0879	mg/kg	4.40	1.99	114	75-125	12.3	20	
Barium	529	8.79	"	440	41.9	111	75-125	12.8	20	
Cadmium	5.21	0.0879	"	4.40	0.0603	117	75-125	13.7	20	
Copper	52.5	8.79	"	44.0	5.26	108	75-125	14.8	20	
Lead	32.0	8.79	"	4.40	283	NR	75-125	12.6	20	QM-07
Nickel	7.70	8.79	"	4.40	3.35	98.9	75-125	16.0	20	U
Selenium	4.56	0.0879	"	4.40	0.0424	103	75-125	18.4	20	
Silver	5.28	0.0879	"	4.40	0.0365	119	75-125	13.8	20	
Zinc	60.6	87.9	"	44.0	14.3	106	75-125	14.2	20	U

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Classical Chemistry Parameters - 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 B3I2809 - DTPA Sorbitol Preparation

Blank (B3I2809-BLK1)

Prepared: 09/28/2023 Analyzed: 09/29/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3I2809-DUP1)

Source: Y309526-01

Prepared: 09/28/2023 Analyzed: 09/29/2023

Boron	0.149	0.100	mg/L		0.151			1.74	50	
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Batch B3I2812 - Saturated Paste Metals

Blank (B3I2812-BLK1)

Prepared: 09/28/2023 Analyzed: 10/02/2023

Calcium PPM	ND	10.0	mg/L							U
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SAR	ND	0.0100	SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B3I2812-DUP1)

Source: Y309545-01

Prepared: 09/28/2023 Analyzed: 10/02/2023

SAR	ND	0.0100	SAR		0.174				200	U
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Calcium PPM	ND	10.0	mg/L		ND				50	U
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Magnesium PPM	ND	10.0	"		ND				50	U
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Sodium PPM	0.360	10.0	"		ND				50	U
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Saturated Paste - 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 B3I2816 - Saturated Paste pH/EC

Blank (B3I2816-BLK1)

Prepared: 09/28/2023 Analyzed: 09/29/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3I2816-DUP1)

Source: Y309545-01

Prepared: 09/28/2023 Analyzed: 09/29/2023

Specific Conductance (EC)	0.942	0.00500	mmhos/cm		0.928		1.45		25	
pH	8.17		pH Units		8.22		0.610		25	

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707837 - 3550B

MSD (L 83499-MSD-L707837)		Source: 83499			Prepared: 10/02/2023 Analyzed: 10/02/2023					
Chrysene	0.0823	0.00067	mg/Kg	0.164	<0.000624	50.1	30-130	0.4	30	
Acenaphthene	0.0762	0.00067	"	0.164	<0.000304	46.4	30-130	0.3	30	
Pyrene	0.102	0.00067	"	0.164	<0.000643	62.1	30-130	5.7	30	
Naphthalene	0.0773	0.00201	"	0.164	<0.00145	47.1	30-130	2.6	30	
Indeno(1,2,3-cd)pyrene	0.166	0.00067	"	0.164	0.000632	101	30-130	6.4	30	
Fluorene	0.086	0.00067	"	0.164	<0.000286	52.4	30-130	1.3	30	
Fluoranthene	0.106	0.00067	"	0.164	<0.000394	64.6	30-130	3.7	30	
Dibenz(a,h)anthracene	0.136	0.00067	"	0.164	<0.000614	82.9	30-130	4.3	30	
2-Methylnaphthalene	0.0792	0.00201	"	0.164	<0.00194	48.2	30-130	1.1	30	
1-Methylnaphthalene	0.0769	0.00201	"	0.164	<0.00109	46.8	30-130	0.1	30	
Benzo(a)anthracene	0.104	0.00067	"	0.164	<0.000493	63.4	30-130	7.4	30	
Benzo(k)fluoranthene	0.071	0.00067	"	0.164	<0.000437	43.2	30-130	0.5	30	
Anthracene	0.104	0.00067	"	0.164	<0.000334	63.4	30-130	3.7	30	
Benzo(a)pyrene	0.11	0.00067	"	0.164	<0.000468	67	30-130	0	30	
Benzo(b)fluoranthene	0.115	0.00067	"	0.164	<0.000585	70.1	30-130	18.1	30	
Surrogate: Nitrobenzene-d5	58.9		"	0.329	178	58.9	29-110			
Surrogate: 2-Fluorobiphenyl	41.3		"	0.329	134	41.3	33-115			
Surrogate: 4-Terphenyl-d14	41.6		"	0.329	141	41.6	33-122			

MS (L 83499-MS-L707837)		Source: 83499			Prepared: 10/02/2023 Analyzed: 10/02/2023					
Dibenz(a,h)anthracene	0.142	0.00067	mg/Kg	0.163	<0.000614	87.1	30-130			
Benzo(k)fluoranthene	0.0706	0.00067	"	0.163	<0.000437	43.3	30-130			
Naphthalene	0.0753	0.00201	"	0.163	<0.00145	46.1	30-130			
Indeno(1,2,3-cd)pyrene	0.177	0.00067	"	0.163	0.000632	108	30-130			
Fluoranthene	0.11	0.00067	"	0.163	<0.000394	67.4	30-130			
Pyrene	0.108	0.00067	"	0.163	<0.000643	66.2	30-130			
Chrysene	0.0819	0.00067	"	0.163	<0.000624	50.2	30-130			

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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707837 - 3550B

MS (L 83499-MS-L707837)		Source: 83499			Prepared: 10/02/2023 Analyzed: 10/02/2023					
Benzo(a)pyrene	0.11	0.00067	mg/Kg	0.163	<0.000468	67.4	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.163	<0.000493	68.7	30-130			
Anthracene	0.108	0.00067	"	0.163	<0.000334	66.2	30-130			
Acenaphthene	0.0765	0.00067	"	0.163	<0.000304	46.9	30-130			
2-Methylnaphthalene	0.0783	0.00201	"	0.163	<0.00194	48	30-130			
1-Methylnaphthalene	0.0768	0.00201	"	0.163	<0.00109	47.1	30-130			
Benzo(b)fluoranthene	0.138	0.00067	"	0.163	<0.000585	84.6	30-130			
Fluorene	0.0872	0.00067	"	0.163	<0.000286	53.4	30-130			
Surrogate: Nitrobenzene-d5	61.7		"	0.327	178	61.7	29-110			
Surrogate: 4-Terphenyl-d14	43.1		"	0.327	141	43.1	33-122			
Surrogate: 2-Fluorobiphenyl	41.5		"	0.327	134	41.5	33-115			

LCS (LCS-L707837)		Prepared: 10/02/2023 Analyzed: 10/02/2023								
Pyrene	0.111	0.00067	mg/Kg	0.167		66.4	30-130			
Benzo(b)fluoranthene	0.132	0.00067	"	0.167		79	30-130			
Benzo(k)fluoranthene	0.0823	0.00067	"	0.167		49.2	30-130			
Chrysene	0.0913	0.00067	"	0.167		54.6	30-130			
Fluoranthene	0.114	0.00067	"	0.167		68.2	30-130			
Indeno(1,2,3-cd)pyrene	0.183	0.00067	"	0.167		110	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.149	0.00067	"	0.167		89.2	30-130			
Naphthalene	0.0858	0.00201	"	0.167		51.3	30-130			
Anthracene	0.112	0.00067	"	0.167		67	30-130			
Acenaphthene	0.0872	0.00067	"	0.167		52.2	30-130			
2-Methylnaphthalene	0.0877	0.00201	"	0.167		52.5	30-130			
1-Methylnaphthalene	0.0871	0.00201	"	0.167		52.1	30-130			
Fluorene	0.0957	0.00067	"	0.167		57.3	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L707837 - 3550B

LCS (LCS-L707837)

Prepared: 10/02/2023 Analyzed: 10/02/2023

Benzo(a)anthracene	0.114	0.00067	mg/Kg	0.167		68.2	30-130			
Surrogate: Nitrobenzene-d5	73.2		"	0.333		73.2	29-110			
Surrogate: 4-Terphenyl-d14	45.6		"	0.333		45.6	33-122			
Surrogate: 2-Fluorobiphenyl	49.2		"	0.333		49.2	33-115			

LRB (LRB-L707837)

Prepared: 10/02/2023 Analyzed: 10/02/2023

Naphthalene	ND	0.00201	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	52.2		"	0.333		52.2	29-110			
Surrogate: 4-Terphenyl-d14	53.4		"	0.333		53.4	33-122			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L709180 -										
DUP (L 88298-DUP)		Source: 88298			Prepared: Analyzed: 10/06/2023					
Chromium, Hexavalent	ND	0.501	mg/Kg		<0.501		-	0	20	
MS (L 88298-MS)		Source: 88298			Prepared: Analyzed: 10/06/2023					
Chromium, Hexavalent	36	2.56	mg/Kg	40.9	<1.25	88	75-125			
LCS (LCS)		Prepared: Analyzed: 10/06/2023								
Chromium, Hexavalent	6.91	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 10/06/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

Notes and Definitions

U Sample is Non-Detect.

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 on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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October 16, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - McPeek 3-18 WH

Project Number - 09A1417397

Attached are your analytical results for KMG - McPeek 3-18 WH received by Origins Laboratory, Inc. September 28, 2023. This project is associated with Origins project number Y309717-01.

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



Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL09@4'	Y309717-01	Soil	September 28, 2023 12:00	09/28/2023 15:25
FL-GW07@5'	Y309717-02	Water	September 28, 2023 11:40	09/28/2023 15:25

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeck 3-18 WH

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4309717 Client: Ensolum
 Checklist Completed by: JSP/HACN Client Project ID: McPeck 3-18 WH
 Date/time completed: 9/20/23 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 11.5 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
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)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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) JSP

Date/Time Reviewed 9/20/23

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL09@4'
9/28/2023 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309717-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.983	mg/L	10	B312911	09/29/2023	10/03/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B312829	09/28/2023	09/29/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312836	09/28/2023	09/28/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL09@4'

9/28/2023 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309717-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	135 %		70-130			B31283 6	09/28/2023	09/28/2023	GC
Surrogate: 4-Bromofluorobenzene	85.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.65		0.499	meq/L	10	[CALC]	09/29/2023	10/02/2023	
Magnesium	1.84		0.823	"	"	"	"	"	
Sodium	7.09		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L708519	10/04/2023	10/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000834	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000667	0.000624	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000786	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL09@4'

9/28/2023 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309717-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000635	0.000627	0.00067	mg/Kg	1	L708519	10/04/2023	10/04/2023	J
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00107	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	42.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	44.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	39.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.17			pH Units	1	B312914	09/29/2023	09/30/2023	
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SAR by 20B Saturated Paste

SAR	3.93		0.0100	SAR	1	B312905	09/29/2023	10/02/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.43		0.00500	mmhos/cm	1	B312914	09/29/2023	09/30/2023	
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Total Metals by 6020B

Arsenic	2.06	0.0855	0.25	mg/Kg	5	L708467	10/03/2023	10/07/2023	
Barium	100	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL09@4'

9/28/2023 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y309717-01 (Soil)

Total Metals by 6020B

Cadmium	ND	0.026	0.25	mg/Kg	5	L708467	10/03/2023	10/07/2023	
Copper	13.5	0.0805	0.25	"	"	"	"	"	
Lead	12.3	0.031	0.25	"	"	"	"	"	
Nickel	7.4	0.0635	0.25	"	"	"	"	"	
Selenium	0.781	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	58	0.535	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L710897	09/28/2023	10/15/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

FL-GW07@5'

9/28/2023 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309717-02 (Water)

Anions by IC 300.0

Chloride	205		31.2	mg/L	125	B312903	09/29/2023	10/02/2023	
Sulfate	328		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B312830	09/28/2023	09/28/2023	U
1,3,5-Trimethylbenzene	ND		2.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		2.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1030		5.00	mg/L	1	B312924	09/29/2023	09/29/2023	
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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312829 - EPA 3550B										
Blank (B312829-BLK1)										
					Prepared: 09/28/2023 Analyzed: 09/29/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.5	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312829 - EPA 3550B

LCS (B312829-BS1)

Prepared: 09/28/2023 Analyzed: 09/29/2023

Diesel (C10-C28)	820	50.0	mg/kg	1000		82.0	70-130			
Residual Range Organics (C28-C40)	997	200	"	1000		99.7	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2829 - EPA 3550B

Matrix Spike (B3I2829-MS1)	Source: Y309717-01			Prepared: 09/28/2023 Analyzed: 09/29/2023						
Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
<i>Surrogate: o-Terphenyl</i>	43		"	49.8		87.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B312829 - EPA 3550B

Matrix Spike Dup (B312829-MSD1)	Source: Y309717-01			Prepared: 09/28/2023 Analyzed: 09/29/2023						
Diesel (C10-C28)	823	50.0	mg/kg	1000	ND	82.3	70-130	4.60	35	
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130	0.830	35	
<i>Surrogate: o-Terphenyl</i>	43		"	49.8		86.8	50-150			

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

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 B3I2830 - EPA 5030B (Water)

Blank (B3I2830-BLK1)

Prepared: 09/28/2023 Analyzed: 09/28/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	102		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.7		70-130			

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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 B312830 - EPA 5030B (Water)

LCS (B312830-BS1)

Prepared: 09/28/2023 Analyzed: 09/28/2023

1,2,4-Trimethylbenzene	44.6	2.00	ug/L	50.0		89.3	70-130			
1,3,5-Trimethylbenzene	46.6	2.00	"	50.0		93.2	70-130			
Benzene	42.2	1.00	"	50.0		84.4	70-130			
Ethylbenzene	44.4	1.00	"	50.0		88.8	70-130			
m,p-Xylene	86.5	2.00	"	100		86.5	70-130			
Naphthalene	44.4	2.00	"	50.0		88.7	70-130			
o-Xylene	44.8	1.00	"	50.0		89.7	70-130			
Toluene	42.7	1.00	"	50.0		85.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	70-130			

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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 B3I2830 - EPA 5030B (Water)

Matrix Spike (B3I2830-MS1)	Source: Y309588-06			Prepared: 09/28/2023 Analyzed: 09/28/2023						
1,2,4-Trimethylbenzene	372	2.00	ug/L	50.0	354	35.6	70-130			QM-07
1,3,5-Trimethylbenzene	383	2.00	"	50.0	326	115	70-130			
Benzene	78.1	1.00	"	50.0	27.3	102	70-130			
Ethylbenzene	353	1.00	"	50.0	255	196	70-130			QM-07
m,p-Xylene	211	2.00	"	100	69.0	142	70-130			QM-07
Naphthalene	284	2.00	"	50.0	240	89.3	70-130			
o-Xylene	67.4	1.00	"	50.0	0.750	133	70-130			QM-07
Toluene	52.0	1.00	"	50.0	0.610	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5		117	70-130			

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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 B312830 - EPA 5030B (Water)

Matrix Spike Dup (B312830-MSD1)	Source: Y309588-06			Prepared: 09/28/2023 Analyzed: 09/28/2023						
1,2,4-Trimethylbenzene	327	2.00	ug/L	50.0	354	NR	70-130	12.9	20	QM-07
1,3,5-Trimethylbenzene	338	2.00	"	50.0	326	24.3	70-130	12.5	20	QM-07
Benzene	69.8	1.00	"	50.0	27.3	85.1	70-130	11.2	20	
Ethylbenzene	308	1.00	"	50.0	255	104	70-130	13.9	20	
m,p-Xylene	185	2.00	"	100	69.0	116	70-130	13.2	20	
Naphthalene	255	2.00	"	50.0	240	30.0	70-130	11.0	20	QM-07
o-Xylene	60.4	1.00	"	50.0	0.750	119	70-130	10.9	20	
Toluene	46.1	1.00	"	50.0	0.610	91.0	70-130	12.1	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	67		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5		117	70-130			

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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 B312836 - EPA 5030 (soil)

Blank (B312836-BLK1)

Prepared: 09/28/2023 Analyzed: 09/28/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	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	97.0		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	86.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312836 - EPA 5030 (soil)

LCS (B312836-BS1)

Prepared: 09/28/2023 Analyzed: 09/28/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0954	0.00200	"	0.100		95.4	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.177	0.00400	"	0.200		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3I2836 - EPA 5030 (soil)

Matrix Spike (B3I2836-MS1)	Source: Y309716-01		Prepared: 09/28/2023 Analyzed: 09/28/2023							
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	0.00214	102	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.0971	0.00200	"	0.100	ND	97.1	70-130			
Ethylbenzene	0.0977	0.00200	"	0.100	0.000560	97.1	70-130			
Naphthalene	0.123	0.00380	"	0.100	0.00176	121	70-130			
Toluene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
o-Xylene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.19		"	0.125		154	70-130			S-GC

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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 B312836 - EPA 5030 (soil)										
Matrix Spike Dup (B312836-MSD1)					Source: Y309716-01					Prepared: 09/28/2023 Analyzed: 09/28/2023
1,2,4-Trimethylbenzene	0.0961	0.00200	mg/kg	0.100	0.00214	93.9	70-130	7.67	20	
1,3,5-Trimethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	10.0	20	
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130	0.144	20	
Ethylbenzene	0.101	0.00200	"	0.100	0.000560	100	70-130	3.26	20	
Naphthalene	0.133	0.00380	"	0.100	0.00176	131	70-130	7.83	20	QM-07
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	10.3	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	8.58	20	
m,p-Xylene	0.219	0.00400	"	0.200	ND	109	70-130	14.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		118	70-130			
Surrogate: 4-Bromofluorobenzene	0.17		"	0.125		139	70-130			S-GC

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 Project: KMG - McPeek 3-18 WH

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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Classical Chemistry Parameters - 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 B3I2903 - Filter .45um non acidified

Blank (B3I2903-BLK1)

Prepared: 09/29/2023 Analyzed: 10/02/2023

Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U

LCS (B3I2903-BS1)

Prepared: 09/29/2023 Analyzed: 10/02/2023

Chloride	4.13	0.250	mg/L	4.00		103	90-110			
Sulfate	4.08	0.250	"	4.00		102	90-110			

Matrix Spike (B3I2903-MS1)

Source: Y309707-01

Prepared: 09/29/2023 Analyzed: 10/02/2023

Chloride	692		mg/L	500	153	108	90-110			
Sulfate	682		"	500	170	102	90-110			

Matrix Spike Dup (B3I2903-MSD1)

Source: Y309707-01

Prepared: 09/29/2023 Analyzed: 10/02/2023

Chloride	677		mg/L	500	153	105	90-110	2.18	5	
Sulfate	686		"	500	170	103	90-110	0.614	5	

Batch B3I2905 - Saturated Paste Metals

Blank (B3I2905-BLK1)

Prepared: 09/29/2023 Analyzed: 10/02/2023

SAR	ND	0.0100	SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2905 - Saturated Paste Metals										
Duplicate (B3I2905-DUP1)		Source: Y309715-01			Prepared: 09/29/2023 Analyzed: 10/02/2023					
Calcium PPM	16.6	10.0	mg/L		18.2			9.29	50	
SAR	ND	0.0100	SAR		13.4				200	U
Magnesium PPM	9.01	10.0	mg/L		8.65			4.08	50	U
Sodium PPM	301	10.0	"		277			8.56	50	
Batch B3I2911 - DTPA Sorbitol Preparation										
Blank (B3I2911-BLK1)		Prepared: 09/29/2023 Analyzed: 10/03/2023								
Boron	ND	0.100	mg/L							U
Duplicate (B3I2911-DUP1)		Source: Y309715-01			Prepared: 09/29/2023 Analyzed: 10/03/2023					
Boron	0.677	0.102	mg/L		0.460			38.2	50	
Batch B3I2924 - NO PREP										
Blank (B3I2924-BLK1)		Prepared: 09/29/2023 Analyzed: 10/03/2023								
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B3I2924-BS1)		Prepared: 09/29/2023 Analyzed: 10/03/2023								
Total Dissolved Solids	978	5.00	mg/L	1010		96.8	90-110			
Duplicate (B3I2924-DUP1)		Source: Y309546-07			Prepared: 09/29/2023 Analyzed: 10/03/2023					
Total Dissolved Solids	1420	5.00	mg/L		1480			4.41	10	

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 Project: KMG - McPeek 3-18 WH

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2914 - Saturated Paste pH/EC										
Blank (B3I2914-BLK1)					Prepared: 09/29/2023 Analyzed: 09/30/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3I2914-DUP1)					Source: Y309715-01 Prepared: 09/29/2023 Analyzed: 09/30/2023					
pH	8.82		pH Units		8.73			1.03	25	
Specific Conductance (EC)	1.53	0.00500	mmhos/cm		1.58			3.40	25	

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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L708519 - 3550B

MSD (L 97312-MSD-L708519)		Source: 97312			Prepared: 10/04/2023 Analyzed: 10/04/2023					
Benzo(k)fluoranthene	0.0611	0.00067	mg/Kg	0.162	97312	37.7	30-130	7.2	30	
1-Methylnaphthalene	0.0734	0.00201	"	0.162	97312	45.3	30-130	3.3	30	
2-Methylnaphthalene	0.0738	0.00201	"	0.162	97312	45.5	30-130	2.6	30	
Acenaphthene	0.0749	0.00067	"	0.162	97312	46.2	30-130	3.6	30	
Anthracene	0.0787	0.00067	"	0.162	97312	48.5	30-130	2.3	30	
Benzo(a)anthracene	0.0809	0.00067	"	0.162	97312	49.9	30-130	2.5	30	
Benzo(b)fluoranthene	0.0567	0.00067	"	0.162	97312	35	30-130	17.6	30	
Pyrene	0.0816	0.00067	"	0.162	97312	50.3	30-130	1.8	30	
Chrysene	0.0816	0.00067	"	0.162	97312	50.3	30-130	1.7	30	
Dibenz(a,h)anthracene	0.0986	0.00067	"	0.162	97312	60.8	30-130	11.8	30	
Fluoranthene	0.0831	0.00067	"	0.162	97312	51.2	30-130	2.4	30	
Fluorene	0.0781	0.00067	"	0.162	97312	48.2	30-130	4	30	
Indeno(1,2,3-cd)pyrene	0.0921	0.00067	"	0.162	97312	56.8	30-130	15.8	30	
Naphthalene	0.0722	0.00201	"	0.162	97312	44.5	30-130	3.9	30	
Benzo(a)pyrene	0.0838	0.00067	"	0.162	97312	51.7	30-130	2.4	30	
Surrogate: 2-Fluorobiphenyl	39.3		"	0.325	157	39.3	33-115			
Surrogate: 4-Terphenyl-d14	44.3		"	0.325	171	44.3	33-122			
Surrogate: Nitrobenzene-d5	37.2		"	0.325	143	37.2	29-110			

MS (L 97312-MS-L708519)		Source: 97312			Prepared: 10/04/2023 Analyzed: 10/04/2023					
Benzo(b)fluoranthene	0.0677	0.00067	mg/Kg	0.164	97312	41.2	30-130			
Naphthalene	0.0751	0.00201	"	0.164	97312	45.7	30-130			
Pyrene	0.0831	0.00067	"	0.164	97312	50.6	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.164	97312	65.8	30-130			
Fluorene	0.0813	0.00067	"	0.164	97312	49.5	30-130			
Fluoranthene	0.0852	0.00067	"	0.164	97312	51.9	30-130			
Dibenz(a,h)anthracene	0.111	0.00067	"	0.164	97312	67.6	30-130			

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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L708519 - 3550B

MS (L 97312-MS-L708519)	Source: 97312			Prepared: 10/04/2023 Analyzed: 10/04/2023						
1-Methylnaphthalene	0.0759	0.00201	mg/Kg	0.164	97312	46.2	30-130			
Benzo(k)fluoranthene	0.0657	0.00067	"	0.164	97312	40	30-130			
Benzo(a)pyrene	0.0859	0.00067	"	0.164	97312	52.3	30-130			
Benzo(a)anthracene	0.083	0.00067	"	0.164	97312	50.6	30-130			
Anthracene	0.0806	0.00067	"	0.164	97312	49.1	30-130			
Acenaphthene	0.0777	0.00067	"	0.164	97312	47.3	30-130			
2-Methylnaphthalene	0.0758	0.00201	"	0.164	97312	46.2	30-130			
Chrysene	0.083	0.00067	"	0.164	97312	50.6	30-130			
Surrogate: 2-Fluorobiphenyl	38.9		"	0.329	157	38.9	33-115			
Surrogate: 4-Terphenyl-d14	42.5		"	0.329	171	42.5	33-122			
Surrogate: Nitrobenzene-d5	36.7		"	0.329	143	36.7	29-110			

LCS (LCS-L708519)	Prepared: 10/04/2023 Analyzed: 10/04/2023									
Chrysene	0.0966	0.00067	mg/Kg	0.167		57.8	30-130			
2-Methylnaphthalene	0.0866	0.00201	"	0.167		51.8	30-130			
Anthracene	0.093	0.00067	"	0.167		55.6	30-130			
Benzo(a)pyrene	0.0955	0.00067	"	0.167		57.1	30-130			
1-Methylnaphthalene	0.0863	0.00201	"	0.167		51.6	30-130			
Benzo(k)fluoranthene	0.0666	0.00067	"	0.167		39.8	30-130			
Acenaphthene	0.089	0.00067	"	0.167		53.2	30-130			
Dibenz(a,h)anthracene	0.104	0.00067	"	0.167		62.2	30-130			
Fluoranthene	0.0968	0.00067	"	0.167		57.9	30-130			
Fluorene	0.0909	0.00067	"	0.167		54.4	30-130			
Indeno(1,2,3-cd)pyrene	0.1	0.00067	"	0.167		59.8	30-130			
Naphthalene	0.0849	0.00201	"	0.167		50.8	30-130			
Pyrene	0.0955	0.00067	"	0.167		57.1	30-130			
Benzo(b)fluoranthene	0.0638	0.00067	"	0.167		38.2	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L708519 - 3550B

LCS (LCS-L708519)

Prepared: 10/04/2023 Analyzed: 10/04/2023

Benzo(a)anthracene	0.0959	0.00067	mg/Kg	0.167		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	51		"	0.333		51	33-115			
Surrogate: 4-Terphenyl-d14	54.6		"	0.333		54.6	33-122			
Surrogate: Nitrobenzene-d5	48		"	0.333		48	29-110			

LRB (LRB-L708519)

Prepared: 10/04/2023 Analyzed: 10/04/2023

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.333		47.7	33-115			
Surrogate: 4-Terphenyl-d14	53.4		"	0.333		53.4	33-122			
Surrogate: Nitrobenzene-d5	45.6		"	0.333		45.6	29-110			

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Ensolum
 11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L708467 - 3050B

MSD (A 63468-MSD-L708467)		Source: 63468			Prepared: 10/03/2023 Analyzed: 10/07/2023					
Barium	201	0.25	mg/Kg	4.99	138	NR	75-125	43.6	80	*
Zinc	51.5	12.5	"	25	29.1	90	75-125	0.9	80	
Silver	0.707	1.25	"	0.499	0.258	90	75-125	2.2	80	
Selenium	24.6	1.25	"	4.99	19.9	94	75-125	0.8	80	
Nickel	23.3	1.25	"	2.5	20.8	100	75-125	4.3	80	
Lead	11.2	0.25	"	2.5	8.29	117	75-125	14.7	80	
Cadmium	0.833	1.25	"	0.499	0.399	87	75-125	5.8	80	
Arsenic	16.6	1.25	"	2.5	14.4	88	75-125	1.2	80	
Copper	26.8	1.25	"	2.5	23.9	116	75-125	2.6	80	

MS (A 63468-MS-L708467)		Source: 63468			Prepared: 10/03/2023 Analyzed: 10/09/2023					
Silver	0.723	1.25	mg/Kg	0.491	0.258	95	75-125			
Copper	26.1	1.25	"	2.46	23.9	90	75-125			
Cadmium	0.883	1.25	"	0.491	0.399	99	75-125			
Zinc	51	12.5	"	24.6	29.1	89	75-125			
Nickel	22.3	1.25	"	2.46	20.8	61	75-125			*
Barium	129	0.25	"	4.91	138	0	75-125			*
Selenium	24.8	1.25	"	4.91	19.9	100	75-125			
Lead	9.66	0.25	"	2.46	8.29	56	75-125			*
Arsenic	16.4	1.25	"	2.46	14.4	81	75-125			

LCS (LCS-L708467)		Prepared: 10/03/2023 Analyzed: 10/07/2023								
Arsenic	2.3	0.25	mg/Kg	2.5		92	80-120			
Barium	4.29	0.25	"	5		86	80-120			
Cadmium	0.486	0.25	"	0.5		97	80-120			
Copper	2.64	0.25	"	2.5		106	80-120			
Lead	2.35	0.25	"	2.5		94	80-120			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L708467 - 3050B

LCS (LCS-L708467)

Prepared: 10/03/2023 Analyzed: 10/07/2023

Nickel	2.53	0.25	mg/Kg	2.5		101	80-120			
Selenium	4.47	0.25	"	5		89	80-120			
Zinc	24.8	2.5	"	25		99	80-120			
Silver	0.495	0.25	"	0.5		99	80-120			

LRB (LRB-L708467)

Prepared: 10/03/2023 Analyzed: 10/07/2023

Copper	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			

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Ensolum
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417397
 Project: KMG - McPeek 3-18 WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L710897 -										
DUP (L 97320-DUP)		Source: 97320			Prepared: Analyzed: 10/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		97320		-	0	20	
MS (L 97320-MS)		Source: 97320			Prepared: Analyzed: 10/15/2023					
Chromium, Hexavalent	33.7	2.53	mg/Kg	40.5	97320	83	75-125			
LCS (LCS)		Prepared: Analyzed: 10/15/2023								
Chromium, Hexavalent	6.64	0.5	mg/Kg	8		83	75-125			
LRB (LRB)		Prepared: Analyzed: 10/15/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417397
Project: KMG - McPeek 3-18 WH

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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