

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
REI H 17-21D, 30D WELLHEADS
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)
SPILL AREA SAMPLES								
Location 1	2/24/2023	0.5	382.3	Stain	Odor	40.22932189	-104.6921314	N
Location 2/SS01@0.5'-WP	2/24/2023	0.5	475.1	Stain	Odor	40.22932992	-104.6921803	Y
Location 3	2/24/2023	0.5	87.5	Stain	Odor	40.22930099	-104.6921807	N
SS01@1.5'	4/12/2023	1.5	10.1	NS	NO	40.22926996	-104.6921755	Y
SS02@1.5'	4/12/2023	1.5	8.7	NS	NO	40.22921661	-104.6921915	Y
SS02-B01@3.5'	5/22/2023	3.5	0.9	NS	NO	40.22922319	-104.69222	Y
SS02-N01@1.5'	5/22/2023	1.5	1.7	NS	NO	40.22923749	-104.6922201	Y
SS02-E01@1.5'	5/22/2023	1.5	1.4	NS	NO	40.22921166	-104.6921953	Y
SS02-S01@1.5'	5/22/2023	1.5	0.5	NS	NO	40.22921383	-104.6922293	Y
SS02-W01@1.5'	5/22/2023	1.5	1.6	NS	NO	40.22923503	-104.6922464	Y
N02@1.5'	6/23/2023	1.5	5.7	NS	NO	40.22924791	-104.6921935	Y
E02@1.5'	6/23/2023	1.5	6.6	NS	NO	40.22920187	-104.692158	Y
S02@1.5'	6/23/2023	1.5	6.2	NS	NO	40.229193	-104.69224	Y
S03@1.5'	6/23/2023	1.5	6.1	NS	NO	40.229188	-104.692207	Y
W02@1.5'	6/23/2023	1.5	6.6	NS	NO	40.22923695	-104.6922553	Y
W03@1.5'	6/23/2023	1.5	1.7	NS	NO	40.22920042	-104.6922509	Y
B02@2'	6/23/2023	2	6.3	NS	NO	40.22921049	-104.6921743	Y
WELLHEAD EXCAVATION SAMPLES								
N01@3' (REI H17-30D)	3/22/2023	3	2.8	NS	NO	40.229379	-104.692145	Y
E01@3' (REI H17-30D)	3/22/2023	3	0.4	NS	NO	40.2293369	-104.6920878	Y
S01@3' (REI H17-30D)	3/22/2023	3	1.2	NS	NO	40.229316	-104.692141	Y
W01@3' (REI H17-30D)	3/22/2023	3	0.6	NS	NO	40.22933712	-104.6921807	Y
B01@7' (REI H17-30D)	3/22/2023	7	73.8	NS	Odor	40.22934358	-104.6921312	Y
WH01-Riser@4' (REI H17-30D)	3/22/2023	4	15.1	NS	NO	40.22935074	-104.692123	Y
N Wall (REI H17-21D)	3/22/2023	3	1.6	NS	NO	40.22923927	-104.6921427	N
E Wall (REI H17-21D)	3/22/2023	3	0.0	NS	NO	40.22921612	-104.6920947	N
S Wall (REI H17-21D)	3/22/2023	3	0.0	NS	NO	40.22917948	-104.6921427	N
W Wall (REI H17-21D)	3/22/2023	3	0.0	NS	NO	40.22921037	-104.6921783	N
B01@6'-WP (REI H17-21D)	3/22/2023	6	0.3	NS	NO	40.22922015	-104.6921421	Y
WH01-Riser@5'-WP (REI H17-21D)	3/22/2023	5	3.3	NS	NO	40.22922555	-104.6921361	Y
FLOWLINE POTHOLE SAMPLES								
PH01	4/6/2023	4	1.8	NS	NO	40.22888972	-104.6928022	N

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REI H 17-21D, 30D WELLHEADS
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)
SEPARATOR RISER SAMPLES								
SEP01-RISER@4' (REI H17-21D)	4/13/2023	4	1.1	NS	NO	40.22823187	-104.6923224	Y
SEP01-RISER@4' (REI 17-30D)	4/13/2023	4	0.2	NS	NO	40.22822598	-104.6923363	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@3'	3/22/2023	3	0.1	NS	NO	40.22940259	-104.6922675	Y
Native-BG01@6'	3/22/2023	6	0.0	NS	NO	40.22940259	-104.6922675	Y
Native-BG02@3'	3/22/2023	3	0.0	NS	NO	40.22945259	-104.6918986	Y
Native-BG02@6'	3/22/2023	6	0.0	NS	NO	40.22945259	-104.6918986	Y
Native-BG03@3'	3/22/2023	3	0.0	NS	NO	40.22922509	-104.691899	Y
Native-BG03@6'	3/22/2023	6	0.0	NS	NO	40.22922509	-104.691899	Y
Native-BG04@3'	3/22/2023	3	0.0	NS	NO	40.22897321	-104.6919533	Y
Native-BG04@6'	3/22/2023	6	0.0	NS	NO	40.22897321	-104.6919533	Y

Notes:

ft. - feet	NS - No Staining
bgs - below ground surface	NO - No Odor
PID - Photoionization detector	NA - Not Analyzed/Not Applicable
ppm - parts per million	

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
REI H 17-21D, 30D WELLHEADS
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
SPILL AREA SAMPLES												
SS01@0.5'-WP	2/24/2023	0.5	17.4	140	<100	0.699	3.89	0.272	7.98	1.96	1.64	0.0785
SS01@1.5'	4/12/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
SS02@1.5'	4/12/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
SS02-B01@3.5'	5/22/2023	3.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SS02-N01@1.5'	5/22/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SS02-E01@1.5'	5/22/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SS02-S01@1.5'	5/22/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SS02-W01@1.5'	5/22/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
N02@1.5'	6/23/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
E02@1.5'	6/23/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S02@1.5'	6/23/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
S03@1.5'	6/23/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W02@1.5'	6/23/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
W03@1.5'	6/23/2023	1.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B02@2'	6/23/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
WELLHEAD EXCAVATION SAMPLES												
N01@3' (REI H17-30D)	3/22/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
E01@3' (REI H17-30D)	3/22/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
S01@3' (REI H17-30D)	3/22/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
W01@3' (REI H17-30D)	3/22/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
B01@7' (REI H17-30D)	3/22/2023	7	0.269	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
WH01-Riser@4' (REI H17-30D)	3/22/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201
B01@6'-WP (REI H17-21D)	3/22/2023	6	0.251	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
WH01-Riser@5'-WP (REI H17-21D)	3/22/2023	5	1.16	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR RISER SAMPLES												
SEP01-RISER@4' (REI H17-21D)	4/13/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP01-RISER@4' (REI 17-30D)	4/13/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
REI H 17-21D, 30D WELLHEADS
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
SPILL AREA SAMPLES																
SS01@0.5'-WP	2/24/2023	0.5	0.0212	0.00035	0.000756	<0.00067	<0.00067	0.00063	0.00299	0.000931	<0.00067	0.0279	0.000699	0.125	0.167	0.0021
SS01@1.5'	4/12/2023	1.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000691	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
SS02@1.5'	4/12/2023	1.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
SS02-B01@3.5'	5/22/2023	3.5	<0.00067	<0.00067	<0.00067	NA	NA	<0.00067	<0.00067	<0.00067	NA	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS02-N01@1.5'	5/22/2023	1.5	<0.00067	<0.00067	<0.00067	NA	NA	<0.00067	<0.00067	<0.00067	NA	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS02-E01@1.5'	5/22/2023	1.5	<0.00067	<0.00067	<0.00067	NA	NA	<0.00067	<0.00067	<0.00067	NA	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS02-S01@1.5'	5/22/2023	1.5	<0.00067	<0.00067	<0.00067	NA	NA	<0.00067	<0.00067	<0.00067	NA	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS02-W01@1.5'	5/22/2023	1.5	<0.00067	<0.00067	<0.00067	NA	NA	<0.00067	<0.00067	<0.00067	NA	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
N02@1.5'	6/23/2023	1.5	<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
E02@1.5'	6/23/2023	1.5	<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
S02@1.5'	6/23/2023	1.5	<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
S03@1.5'	6/23/2023	1.5	<0.020	<0.020	0.007	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
W02@1.5'	6/23/2023	1.5	<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
W03@1.5'	6/23/2023	1.5	<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
B02@2'	6/23/2023	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
WELLHEAD EXCAVATION SAMPLES																
N01@3' (REI H17-30D)	3/22/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
E01@3' (REI H17-30D)	3/22/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
S01@3' (REI H17-30D)	3/22/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
W01@3' (REI H17-30D)	3/22/2023	3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
B01@7' (REI H17-30D)	3/22/2023	7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
WH01-Riser@4' (REI H17-30D)	3/22/2023	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067
B01@6'-WP (REI H17-21D)	3/22/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-Riser@5'-WP (REI H17-21D)	3/22/2023	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
SEP01-RISER@4' (REI H17-21D)	4/13/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-RISER@4' (REI 17-30D)	4/13/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
REI H 17-21D, 30D WELLHEADS
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
SPILL AREA SAMPLES						
SS01@0.5'-WP	2/24/2023	0.5	2.35	9.47	12.0	0.459
SS01@1.5'	4/12/2023	1.5	NA	3.07	8.09	0.216
SS02@1.5'	4/12/2023	1.5	NA	0.05	8.09	<0.0997
SS02-B01@3.5'	5/22/2023	3.5	NA	0.052	8.28	<0.0989
SS02-N01@1.5'	5/22/2023	1.5	NA	0.0356	8.32*	<0.0999
SS02-E01@1.5'	5/22/2023	1.5	NA	0.647	8.35*	<0.0991
SS02-S01@1.5'	5/22/2023	1.5	NA	0.0412	8.31*	<0.0985
SS02-W01@1.5'	5/22/2023	1.5	NA	0.0647	8.29	0.128
N02@1.5'	6/23/2023	1.5	NA	1.29	8.02	0.207
E02@1.5'	6/23/2023	1.5	NA	0.980	8.15	0.162
S02@1.5'	6/23/2023	1.5	NA	0.188	8.15	<0.101
S03@1.5'	6/23/2023	1.5	NA	0.547	8.04	<0.101
W02@1.5'	6/23/2023	1.5	NA	2.52	8.05	0.465
W03@1.5'	6/23/2023	1.5	NA	0.186	8.05	<0.0994
B02@2'	6/23/2023	2	NA	1.44	8.07	0.271
WELLHEAD EXCAVATION SAMPLES						
N01@3' (REI H17-30D)	3/22/2023	3	0.225	0.230	8.15	<0.102
E01@3' (REI H17-30D)	3/22/2023	3	0.0969	0.413	7.65	<0.101
S01@3' (REI H17-30D)	3/22/2023	3	0.122	0.268	7.74	<0.101
W01@3' (REI H17-30D)	3/22/2023	3	0.187	0.145	7.86	0.122
B01@7' (REI H17-30D)	3/22/2023	7	0.358	2.86	8.37*	<0.0995
WH01-Riser@4' (REI H17-30D)	3/22/2023	4	0.168	0.282	8.13	<0.100
B01@6'-WP (REI H17-21D)	3/22/2023	6	0.671	4.80	9.58*	0.552
WH01-Riser@5'-WP (REI H17-21D)	3/22/2023	5	0.256	0.265	8.21	<0.0991
SEPARATOR RISER SAMPLES						
SEP01-RISER@4' (REI H17-21D)	4/13/2023	4	0.390	0.427	8.29	<0.100
SEP01-RISER@4' (REI 17-30D)	4/13/2023	4	0.163	0.131	8.26	0.105
BACKGROUND SAMPLES						
Native-BG01@3'	3/22/2023	3	0.102	0.359	7.76	<0.0994
Native-BG01@6'	3/22/2023	6	0.0888	0.138	7.72	<0.0992
Native-BG02@3'	3/22/2023	3	0.0750	0.171	7.65	<0.0995
Native-BG02@6'	3/22/2023	6	0.0553	0.460	7.35	<0.0998
Native-BG03@3'	3/22/2023	3	0.108	0.161	7.78	<0.0999
Native-BG03@6'	3/22/2023	6	0.183	0.216	8.13	<0.100
Native-BG04@3'	3/22/2023	3	0.0497	0.232	7.12	<0.100
Native-BG04@6'	3/22/2023	6	0.0665	0.359	7.10	<0.101

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
REI H 17-21D, 30D WELLHEADS
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
SPILL AREA SAMPLES												
SS01@0.5'-WP	2/24/2023	0.5	1.77	792	0.206	<2.5	31.4	<9.35	<9.35	0.133	<0.0935	<93.5
SS01@1.5'	4/12/2023	1.5	1.56*	55.4	<0.0879	NA	<8.79	NA	NA	<0.0879	NA	NA
SS02@1.5'	4/12/2023	1.5	1.57*	113	<0.0954	NA	<9.54	NA	NA	<0.0954	NA	NA
SS02-B01@3.5'	5/22/2023	3.5	1.12*	45.1	<0.0987	NA	<9.87	NA	NA	<0.0987	NA	NA
SS02-N01@1.5'	5/22/2023	1.5	1.39*	159	<0.0951	NA	<9.51	NA	NA	0.0960	NA	NA
SS02-E01@1.5'	5/22/2023	1.5	1.49*	170	<0.125	NA	<8.67	NA	NA	0.0867	NA	NA
SS02-S01@1.5'	5/22/2023	1.5	6.60	217	0.514	NA	20.0	NA	NA	0.539*	NA	NA
SS02-W01@1.5'	5/22/2023	1.5	1.37*	159	<0.0892	NA	<8.92	NA	NA	<0.0892	NA	NA
N02@1.5'	6/23/2023	1.5	2.17	140	0.137	NA	<9.24	NA	NA	0.362*	NA	NA
E02@1.5'	6/23/2023	1.5	1.61*	94.6	<0.0901	NA	<9.01	NA	NA	<0.180	NA	NA
S02@1.5'	6/23/2023	1.5	1.29*	42.5	<0.0974	NA	<9.74	NA	NA	<0.0974	NA	NA
S03@1.5'	6/23/2023	1.5	1.08*	46.6	<0.0892	NA	<8.92	NA	NA	<0.0892	NA	NA
W02@1.5'	6/23/2023	1.5	4.13	80.8	0.201	NA	11.2	NA	NA	0.113	NA	NA
W03@1.5'	6/23/2023	1.5	1.31*	71.0	<0.0932	NA	<9.32	NA	NA	<0.0932	NA	NA
B02@2'	6/23/2023	2	1.98*	107	0.124	NA	<9.23	NA	NA	0.118	NA	NA
WELLHEAD EXCAVATION SAMPLES												
N01@3' (REI H17-30D)	3/22/2023	3	1.50*	42.3	<0.0957	NA	<9.57	NA	NA	<0.0957	NA	NA
E01@3' (REI H17-30D)	3/22/2023	3	1.15*	40.8	<0.0939	NA	<9.39	NA	NA	<0.0939	NA	NA
S01@3' (REI H17-30D)	3/22/2023	3	1.06*	39.9	<0.0936	NA	<9.36	NA	NA	<0.0936	NA	NA
W01@3' (REI H17-30D)	3/22/2023	3	1.02*	42.1	<0.0916	NA	<9.16	NA	NA	<0.0916	NA	NA
B01@7' (REI H17-30D)	3/22/2023	7	0.703*	27.8	<0.0982	NA	<9.82	NA	NA	<0.0982	NA	NA
WH01-Riser@4' (REI H17-30D)	3/22/2023	4	1.10*	33.9	<0.0912	NA	<9.12	NA	NA	<0.0912	NA	NA
B01@6'-WP (REI H17-21D)	3/22/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01-Riser@5'-WP (REI H17-21D)	3/22/2023	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
SEP01-RISER@4' (REI H17-21D)	4/13/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-RISER@4' (REI 17-30D)	4/13/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
Native-BG01@3'	3/22/2023	3	1.12	36.4	<0.0905	<0.5	<9.05	<9.05	<9.05	<0.0905	<0.0905	<90.5
Native-BG01@6'	3/22/2023	6	0.928	35.7	<0.0851	<0.506	<8.51	<8.51	<8.51	<0.0851	<0.0851	<85.1
Native-BG02@3'	3/22/2023	3	1.31	44.3	<0.0907	<0.512	<9.07	<9.07	<9.07	<0.0907	<0.0907	<90.7
Native-BG02@6'	3/22/2023	6	0.957	39.4	<0.0946	<0.507	<9.46	<9.46	<9.46	<0.0946	<0.0946	<94.6
Native-BG03@3'	3/22/2023	3	1.41	33.9	<0.0944	<0.5	<9.44	<9.44	<9.44	<0.0944	<0.0944	<94.4
Native-BG03@6'	3/22/2023	6	1.72	46.5	<0.0844	<0.5	<8.44	<8.44	<8.44	0.435	<0.0844	<84.4
Native-BG04@3'	3/22/2023	3	1.30	40.0	<0.0941	<0.509	<9.41	<9.41	<9.41	<0.0941	<0.0941	<94.1
Native-BG04@6'	3/22/2023	6	1.15	38.3	<0.0902	<0.5	<9.02	<9.02	<9.02	<0.0902	<0.0902	<90.2

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
REI H 17-21D, 30D WELLHEADS
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 analytical variability of 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 and background

March 06, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - REI H 17-210, 30D
Wellheads**

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-210, 30D Wellheads received by Origins Laboratory, Inc. February 24, 2023. This project is associated with Origins project number Y302482-01.

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: 09A1417235

Project: KMG - REI H 17-210, 30D Wellheads

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0.5'-WP	Y302482-01	Soil	February 24, 2023 13:30	02/24/2023 14:35

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: 09A1417235

Project: KMG - REI H 17-210, 30D Wellheads

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4302482

Client: Ensolum

Client Project ID: REI H, 17-210, 30D

Checklist Completed by: EHS/

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

Date/time completed: 2/24/23

Airbill #: NA

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

Cooler Number/Temperature: 1 13.5 °C °C °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>B jar had quite a bit of water in it</u>				

⁽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)

2/24/23
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: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

SS01@0.5'-WP
2/24/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302482-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.459	0.100	mg/L	1	B3B2705	02/27/2023	02/28/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	140	25.0	mg/kg	1	B3B2402	02/24/2023	02/24/2023
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	94.8 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	1.96	0.0500	mg/kg	25	B3B2418	02/24/2023	02/25/2023
1,3,5-Trimethylbenzene	1.64	0.0500	"	"	"	"	"
Benzene	0.699	0.0500	"	"	"	"	"
Ethylbenzene	0.272	0.00200	"	1	"	"	02/24/2023
Toluene	3.89	0.0500	"	25	"	"	02/25/2023
Xylenes, total	7.98	0.0500	"	"	"	"	"
Gasoline Range Hydrocarbons	17.4	5.00	"	"	"	"	02/24/2023

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	02/24/2023
Surrogate: Toluene-d8	117 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

SS01@0.5'-WP
2/24/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302482-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.63	0.499	meq/L	10	[CALC]	02/27/2023	02/28/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	10.9	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.125	0.00109	0.00201	mg/Kg	1	L666733	02/28/2023	03/01/2023
2-Methylnaphthalene	0.167	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0212	0.000304	0.00067	"	"	"	"	"
Anthracene	0.00035	0.000334	0.00067	"	"	"	"	J
Benzo(a)anthracene	0.000756	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00063	0.000468	0.00067	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00299	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.000931	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0279	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000699	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.0785	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0021	0.000643	0.00067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	52.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	45.5 %		33-122			"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

SS01@0.5'-WP
2/24/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302482-01 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	48.2 %	29-110	L6667 33	02/28/2023	03/01/2023
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pH in Soil by 9045D

pH	12.0	pH Units	1	B3B2706	02/27/2023	02/28/2023
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SAR by 20B Saturated Paste

SAR	9.47	SAR	1	B3B2704	02/27/2023	02/28/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.35	0.00500	mmhos/cm	1	B3B2706	02/27/2023	02/28/2023
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Table 915 metals by EPA 6020B

Arsenic	1.77	0.0935	mg/kg	10	B3B2415	02/24/2023	02/24/2023
Barium	792	9.35	"	"	"	"	"
Cadmium	0.206	0.0935	"	"	"	"	"
Copper	31.4	9.35	"	"	"	"	"
Lead	ND	9.35	"	"	"	"	"
Nickel	ND	9.35	"	"	"	"	"
Selenium	0.133	0.0935	"	"	"	"	"
Silver	ND	0.0935	"	"	"	"	"

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-210, 30D Wellheads

SS01@0.5'-WP

2/24/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y302482-01 (Soil)

Table 915 metals by EPA 6020B

Zinc	ND		93.5	mg/kg	10	B3B2415	02/24/2023	02/24/2023
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Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	1	L666936	02/24/2023	03/01/2023
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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: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2402 - EPA 3580										
Blank (B3B2402-BLK1)					Prepared: 02/24/2023 Analyzed: 02/24/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.9	50-150			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2402 - EPA 3580

LCS (B3B2402-BS1)

Prepared: 02/24/2023 Analyzed: 02/24/2023

Diesel (C10-C28)	929	50.0	mg/kg	1000		92.9	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2402 - EPA 3580

Matrix Spike (B3B2402-MS1)		Source: Y302480-01			Prepared: 02/24/2023 Analyzed: 02/24/2023					
Diesel (C10-C28)	873	50.0	mg/kg	1000	ND	87.3	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2402 - EPA 3580										
Matrix Spike Dup (B3B2402-MSD1)		Source: Y302480-01			Prepared: 02/24/2023 Analyzed: 02/24/2023					
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130	0.109	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	2.23	35	
Surrogate: o-Terphenyl	46		"	49.8		91.8	50-150			

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2418 - EPA 5030 (soil)										
Blank (B3B2418-BLK1)					Prepared: 02/24/2023 Analyzed: 02/24/2023					
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	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.5		70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2418 - EPA 5030 (soil)										
LCS (B3B2418-BS1)					Prepared: 02/24/2023 Analyzed: 02/24/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0924	0.00200	"	0.100		92.4	70-130			
Ethylbenzene	0.0988	0.00200	"	0.100		98.8	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.0930	0.00200	"	0.100		93.0	70-130			
o-Xylene	0.0987	0.00200	"	0.100		98.7	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2418 - EPA 5030 (soil)										
Matrix Spike (B3B2418-MS1)		Source: Y302480-01			Prepared: 02/24/2023 Analyzed: 02/24/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Benzene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.0965	0.00380	"	0.100	ND	96.5	70-130			
Toluene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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
Batch B3B2418 - EPA 5030 (soil)										
Matrix Spike Dup (B3B2418-MSD1)		Source: Y302480-01			Prepared: 02/24/2023 Analyzed: 02/24/2023					
1,2,4-Trimethylbenzene	0.0680	0.00200	mg/kg	0.100	ND	68.0	70-130	39.2	20	QM-07
1,3,5-Trimethylbenzene	0.0683	0.00200	"	0.100	ND	68.3	70-130	41.0	20	QM-07
Benzene	0.0698	0.00200	"	0.100	ND	69.8	70-130	18.5	20	QM-07
Ethylbenzene	0.0708	0.00200	"	0.100	ND	70.8	70-130	36.2	20	QR-02
Naphthalene	0.0667	0.00380	"	0.100	ND	66.7	70-130	36.5	20	QM-07
Toluene	0.0700	0.00200	"	0.100	ND	70.0	70-130	25.1	20	QR-02
o-Xylene	0.0727	0.00200	"	0.100	ND	72.7	70-130	35.4	20	QR-02
m,p-Xylene	0.144	0.00400	"	0.200	ND	72.1	70-130	35.4	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jeremy Espinoza
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Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2415 - EPA 3050B

Blank (B3B2415-BLK1)

Prepared: 02/24/2023 Analyzed: 02/24/2023

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 (B3B2415-BS1)

Prepared: 02/24/2023 Analyzed: 02/24/2023

Arsenic	0.0488	0.000100	mg/kg	0.0500	97.7	80-120
Barium	4.98	0.0100	"	5.00	99.6	80-120
Cadmium	0.0495	0.000100	"	0.0500	99.0	80-120
Copper	0.505	0.0100	"	0.500	101	80-120
Lead	0.0500	0.0100	"	0.0500	99.9	80-120
Nickel	0.0502	0.0100	"	0.0500	100	80-120
Selenium	0.0465	0.000100	"	0.0500	93.0	80-120
Silver	0.0505	0.000100	"	0.0500	101	80-120
Zinc	0.505	0.100	"	0.500	101	80-120

Matrix Spike (B3B2415-MS1)

Source: Y302482-01

Prepared: 02/24/2023 Analyzed: 02/24/2023

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2415 - EPA 3050B

Matrix Spike (B3B2415-MS1)		Source: Y302482-01			Prepared: 02/24/2023 Analyzed: 02/24/2023					
Arsenic	6.02	0.0937	mg/kg	4.68	1.77	90.7	75-125			
Barium	1260	9.37	"	468	792	99.3	75-125			
Cadmium	4.91	0.0937	"	4.68	0.206	100	75-125			
Copper	75.5	9.37	"	46.8	31.4	94.2	75-125			
Lead	10.2	9.37	"	4.68	5.75	94.3	75-125			
Nickel	9.34	9.37	"	4.68	4.49	104	75-125			
Selenium	4.73	0.0937	"	4.68	0.133	98.1	75-125			
Silver	4.94	0.0937	"	4.68	0.0206	105	75-125			
Zinc	72.2	93.7	"	46.8	26.7	97.3	75-125			
Matrix Spike Dup (B3B2415-MSD1)		Source: Y302482-01			Prepared: 02/24/2023 Analyzed: 02/24/2023					
Arsenic	6.02	0.0885	mg/kg	4.43	1.77	96.0	75-125	0.00669	20	
Barium	1460	8.85	"	443	792	152	75-125	15.1	20	QM-07
Cadmium	4.54	0.0885	"	4.43	0.206	97.9	75-125	7.76	20	
Copper	70.5	8.85	"	44.3	31.4	88.5	75-125	6.81	20	
Lead	9.57	8.85	"	4.43	5.75	86.2	75-125	6.10	20	
Nickel	9.89	8.85	"	4.43	4.49	122	75-125	5.71	20	
Selenium	4.20	0.0885	"	4.43	0.133	91.9	75-125	11.8	20	
Silver	4.51	0.0885	"	4.43	0.0206	102	75-125	8.97	20	
Zinc	138	88.5	"	44.3	26.7	251	75-125	62.4	20	QM-07, QR-DUP

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 B3B2704 - Saturated Paste Metals

Blank (B3B2704-BLK1)

Prepared: 02/27/2023 Analyzed: 02/28/2023

Calcium PPM	ND	10.0	mg/L
SAR	0.00		SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B3B2704-DUP1)

Source: Y302476-01

Prepared: 02/27/2023 Analyzed: 02/28/2023

Calcium PPM	361	10.0	mg/L	340	5.94	50
SAR	0.00		SAR	7.99	200	200
Magnesium PPM	192	10.0	mg/L	180	6.24	50
Sodium PPM	801	10.0	"	733	8.87	50

Batch B3B2705 - DTPA Sorbitol Preparation

Blank (B3B2705-BLK1)

Prepared: 02/27/2023 Analyzed: 02/28/2023

Boron	ND	0.100	mg/L
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Duplicate (B3B2705-DUP1)

Source: Y302477-02

Prepared: 02/27/2023 Analyzed: 02/28/2023

Boron	2.59	0.0985	mg/L	2.39	8.12	50
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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2706 - Saturated Paste pH/EC										
Blank (B3B2706-BLK1)					Prepared: 02/27/2023 Analyzed: 02/28/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3B2706-DUP1)					Source: Y302476-01 Prepared: 02/27/2023 Analyzed: 02/28/2023					
Specific Conductance (EC)	3.48	0.00500	mmhos/cm		4.71			29.9	25	QR-DUP
pH	7.78		pH Units		7.92			1.78	25	

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 L666733 - 3550B

MSD (L 92187-MSD-L666733)		Source: 92187			Prepared: 02/28/2023 Analyzed: 03/01/2023					
Chrysene	0.109	0.00067	mg/Kg	0.166	0.0025	64.1	30-130	5.6	30	
Naphthalene	0.106	0.00201	"	0.166	0.00404	61.4	30-130	18.6	30	
Pyrene	0.112	0.00067	"	0.166	0.00146	66.5	30-130	7.4	30	
Indeno(1,2,3-cd)pyrene	0.115	0.00067	"	0.166	<0.000627	69.2	30-130	0.8	30	
Fluorene	0.12	0.00067	"	0.166	0.0107	65.8	30-130	12.3	30	
Fluoranthene	0.12	0.00067	"	0.166	<0.000394	72.2	30-130	11.4	30	
Dibenz(a,h)anthracene	0.134	0.00067	"	0.166	<0.000614	80.7	30-130	3	30	
Benzo(k)fluoranthene	0.0866	0.00067	"	0.166	<0.000437	52.1	30-130	6.8	30	
Benzo(b)fluoranthene	0.0868	0.00067	"	0.166	<0.000585	52.2	30-130	6.3	30	
Benzo(a)pyrene	0.11	0.00067	"	0.166	0.00056	65.9	30-130	5.6	30	
Benzo(a)anthracene	0.121	0.00067	"	0.166	0.000624	72.5	30-130	11.3	30	
Anthracene	0.0865	0.00067	"	0.166	<0.000334	52.1	30-130	4.6	30	
Acenaphthene	0.111	0.00067	"	0.166	0.00602	63.2	30-130	13.5	30	
2-Methylnaphthalene	0.122	0.00201	"	0.166	0.0224	60	30-130	15.9	30	
1-Methylnaphthalene	0.139	0.00201	"	0.166	0.0169	73.5	30-130	26	30	
Surrogate: Nitrobenzene-d5	58.4		"	0.332	166	58.4	29-110			
Surrogate: 2-Fluorobiphenyl	55.7		"	0.332	160	55.7	33-115			
Surrogate: 4-Terphenyl-d14	60.2		"	0.332	186	60.2	33-122			

MS (L 92187-MS-L666733)		Source: 92187			Prepared: 02/28/2023 Analyzed: 03/01/2023					
Benzo(a)pyrene	0.104	0.00067	mg/Kg	0.164	0.00056	63	30-130			
Chrysene	0.103	0.00067	"	0.164	0.0025	61.2	30-130			
2-Methylnaphthalene	0.104	0.00201	"	0.164	0.0224	49.7	30-130			
Acenaphthene	0.0969	0.00067	"	0.164	0.00602	55.4	30-130			
Anthracene	0.0906	0.00067	"	0.164	<0.000334	55.2	30-130			
Benzo(a)anthracene	0.108	0.00067	"	0.164	0.000624	65.4	30-130			
Benzo(k)fluoranthene	0.0809	0.00067	"	0.164	<0.000437	49.3	30-130			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 L666733 - 3550B

MS (L 92187-MS-L666733)		Source: 92187			Prepared: 02/28/2023 Analyzed: 03/01/2023					
Benzo(b)fluoranthene	0.0925	0.00067	mg/Kg	0.164	<0.000585	56.4	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.164	0.0169	54.9	30-130			
Dibenz(a,h)anthracene	0.13	0.00067	"	0.164	<0.000614	79.2	30-130			
Fluoranthene	0.107	0.00067	"	0.164	<0.000394	65.2	30-130			
Fluorene	0.106	0.00067	"	0.164	0.0107	58.1	30-130			
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.164	<0.000627	70.7	30-130			
Naphthalene	0.0879	0.00201	"	0.164	0.00404	51.1	30-130			
Pyrene	0.104	0.00067	"	0.164	0.00146	62.5	30-130			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.329	160	51.9	33-115			
Surrogate: 4-Terphenyl-d14	58.9		"	0.329	186	58.9	33-122			
Surrogate: Nitrobenzene-d5	51.3		"	0.329	166	51.3	29-110			

LCS (LCS-L666733)		Prepared: 02/28/2023 Analyzed: 03/01/2023								
Benzo(b)fluoranthene	0.0853	0.00067	mg/Kg	0.167		51	30-130			
Fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
Chrysene	0.116	0.00067	"	0.167		69.4	30-130			
Acenaphthene	0.112	0.00067	"	0.167		67	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Benzo(a)pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Dibenz(a,h)anthracene	0.11	0.00067	"	0.167		65.8	30-130			
Fluorene	0.119	0.00067	"	0.167		71.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0965	0.00067	"	0.167		57.7	30-130			
Naphthalene	0.105	0.00201	"	0.167		62.8	30-130			
Pyrene	0.12	0.00067	"	0.167		71.8	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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
Batch L666733 - 3550B										
LCS (LCS-L666733)					Prepared: 02/28/2023 Analyzed: 03/01/2023					
Benzo(k)fluoranthene	0.0819	0.00067	mg/Kg	0.167		49	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	0.333	60.3		29-110			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333	74.7		33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.333	60		33-115			
LRB (LRB-L666733)					Prepared: 02/28/2023 Analyzed: 03/01/2023					
Anthracene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333	61.5		29-110			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333	59.4		33-115			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333	75.9		33-122			

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: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

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 L666936 -										
DUP (L 92187-DUP)		Source: 92187			Prepared: Analyzed: 03/01/2023					
Chromium, Hexavalent	ND	2.57	mg/Kg		<2.57	-		0	20	
MS (L 92187-MS)		Source: 92187			Prepared: Analyzed: 03/01/2023					
Chromium, Hexavalent	35.9	2.55	mg/Kg	40.7	<1.24	88	75-125			
LCS (LCS)					Prepared: Analyzed: 03/01/2023					
Chromium, Hexavalent	7.01	0.5	mg/Kg	8		88	75-125			
LRB (LRB)					Prepared: Analyzed: 03/01/2023					
Chromium, Hexavalent	0.247	0.5	mg/Kg				-			J

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-210, 30D Wellheads

Notes and Definitions

U Sample is Non-Detect.

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

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.

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.

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.

March 31, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - REI H 17-21D Wellhead

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-21D Wellhead received by Origins Laboratory, Inc. March 22, 2023. This project is associated with Origins project number Y303582-01.

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'-WP	Y303582-01	Soil	March 22, 2023 14:00	03/22/2023 17:08
WH01-RISER@5'-WP	Y303582-02	Soil	March 22, 2023 14:05	03/22/2023 17:08
NATIVE- BG01@3'	Y303582-03	Soil	March 22, 2023 14:10	03/22/2023 17:08
NATIVE- BG01@6'	Y303582-04	Soil	March 22, 2023 14:15	03/22/2023 17:08
NATIVE- BG02@3'	Y303582-05	Soil	March 22, 2023 14:20	03/22/2023 17:08
NATIVE- BG02@6'	Y303582-06	Soil	March 22, 2023 14:25	03/22/2023 17:08
NATIVE- BG03@3'	Y303582-07	Soil	March 22, 2023 14:30	03/22/2023 17:08
NATIVE- BG03@6'	Y303582-08	Soil	March 22, 2023 14:35	03/22/2023 17:08
NATIVE- BG04@3'	Y303582-09	Soil	March 22, 2023 14:40	03/22/2023 17:08
NATIVE- BG04@6'	Y303582-10	Soil	March 22, 2023 14:45	03/22/2023 17:08

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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

www.originslaboratory.com

page 1 of 1

IMPACTED **4303582**

Client: Ensolum

Project Manager: Jeremy Espinoza

Address: REI H 17-21D Wellhead

Project Number: 09A1417235

Telephone Number: _____

Email Address: KMG Team

Samples Collected By: FS

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysts				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Canister #	Other	TPH (OP)	TPH (CP)		TPH (EP)
60106-WP	3/22/23	1400	2	X				X					X	X	X	919 Metals
WH01-RISER05-WP		1405											X	X	X	added to all
Native-B601a3'		1410											X	X	X	Native Samples
Native-B601a6'		1415											X	X	X	per Jeremy's
Native-B602a3'		1420														email on 3/22/23
Native-B602a6'		1425														
Native-B603a3'		1430														
Native-B603a6'		1435														
Native-B604a3'		1440														
Native-B604a6'		1445														
Relinquished By: <i>FS</i>	Date: 3/22/23	Time: 1708														
Relinquished By: _____	Date: _____	Time: _____														
				Received By: <i>FS</i>	Date: 3/22/23	Time: 1708					Received By: _____	Date: _____	Time: _____			
				Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>												

Temp Received: 4

Date Results Needed: _____

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

Origins Laboratory, Inc.

Jefe Pellegrini

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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4303592

Client: Ensolum

Client Project ID: REI H 17-21D WH

Checklist Completed by: JWH/DE

Shipped Via: HL

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

Date/time completed: 3/22/23

Airbill #: NA

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

☐ Water

☐ Other:

Cooler Number/Temperature: 114 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

3/22/2023
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

B01@6'-WP
3/22/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.552	0.0981	mg/L	1	B3C2306	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.1 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/22/2023	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	0.251	0.200	"	"	"	"	"	

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

B01@6'-WP
3/22/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.3 %	70-130	B3C21 41	03/22/2023	03/22/2023
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.01	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	9.58	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	4.80	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.671	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

WH01-RISER@5'-WP
3/22/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.3 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/22/2023	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	1.16	0.200	"	"	"	"	"	"

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

WH01-RISER@5'-WP
3/22/2023 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.5 %	70-130	B3C21 41	03/22/2023	03/22/2023
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.27	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.21	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.265	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.256	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG01@3'
3/22/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.76	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.359	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.102	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.12	0.0905	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	36.4	9.05	"	"	"	"	"
Cadmium	ND	0.0905	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG01@3'
3/22/2023 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.05	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	9.05	"	"	"	"	"	U
Nickel	ND	9.05	"	"	"	"	"	U
Selenium	ND	0.0905	"	"	"	"	"	U
Silver	ND	0.0905	"	"	"	"	"	U
Zinc	ND	90.5	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L673082	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG01@6'
3/22/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.72	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.138	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0888	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	0.928	0.0851	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	35.7	8.51	"	"	"	"	"
Cadmium	ND	0.0851	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG01@6'
3/22/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.51	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	8.51	"	"	"	"	"	U
Nickel	ND	8.51	"	"	"	"	"	U
Selenium	ND	0.0851	"	"	"	"	"	U
Silver	ND	0.0851	"	"	"	"	"	U
Zinc	ND	85.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L673082	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG02@3'
3/22/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.65	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.171	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0750	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.31	0.0907	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	44.3	9.07	"	"	"	"	"
Cadmium	ND	0.0907	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG02@3'
3/22/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.07	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	9.07	"	"	"	"	"	U
Nickel	ND	9.07	"	"	"	"	"	U
Selenium	ND	0.0907	"	"	"	"	"	U
Silver	ND	0.0907	"	"	"	"	"	U
Zinc	ND	90.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L672974	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG02@6'
3/22/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.35	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.460	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0553	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	0.957	0.0946	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	39.4	9.46	"	"	"	"	"
Cadmium	ND	0.0946	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG02@6'
3/22/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.46	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	9.46	"	"	"	"	"	U
Nickel	ND	9.46	"	"	"	"	"	U
Selenium	ND	0.0946	"	"	"	"	"	U
Silver	ND	0.0946	"	"	"	"	"	U
Zinc	ND	94.6	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L672974	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG03@3'
3/22/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.78	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.161	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.108	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.41	0.0944	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	33.9	9.44	"	"	"	"	"
Cadmium	ND	0.0944	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG03@3'
3/22/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.44	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	9.44	"	"	"	"	"	U
Nickel	ND	9.44	"	"	"	"	"	U
Selenium	ND	0.0944	"	"	"	"	"	U
Silver	ND	0.0944	"	"	"	"	"	U
Zinc	ND	94.4	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L672974	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG03@6'
3/22/2023 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3C2306	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.19	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.13	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.216	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.183	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.72	0.0844	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	46.5	8.44	"	"	"	"	"
Cadmium	ND	0.0844	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG03@6'
3/22/2023 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.44	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	8.44	"	"	"	"	"	U
Nickel	ND	8.44	"	"	"	"	"	U
Selenium	0.435	0.0844	"	"	"	"	"	
Silver	ND	0.0844	"	"	"	"	"	U
Zinc	ND	84.4	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L672974	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG04@3'
3/22/2023 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3C2307	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.12	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.232	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0497	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.30	0.0941	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	40.0	9.41	"	"	"	"	"
Cadmium	ND	0.0941	"	"	"	"	U

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG04@3'
3/22/2023 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.41	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	9.41	"	"	"	"	"	U
Nickel	ND	9.41	"	"	"	"	"	U
Selenium	ND	0.0941	"	"	"	"	"	U
Silver	ND	0.0941	"	"	"	"	"	U
Zinc	ND	94.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L672974	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG04@6'
3/22/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3C2307	03/23/2023	03/24/2023	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.10	pH Units	1	B3C2314	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.359	SAR	1	B3C2310	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0665	0.00500	mmhos/cm	1	B3C2314	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.15	0.0902	mg/kg	10	B3C2420	03/24/2023	03/28/2023
Barium	38.3	9.02	"	"	"	"	"
Cadmium	ND	0.0902	"	"	"	"	U

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

NATIVE- BG04@6'
3/22/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303582-10 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.02	mg/kg	10	B3C2420	03/24/2023	03/28/2023	U
Lead	ND	9.02	"	"	"	"	"	U
Nickel	ND	9.02	"	"	"	"	"	U
Selenium	ND	0.0902	"	"	"	"	"	U
Silver	ND	0.0902	"	"	"	"	"	U
Zinc	ND	90.2	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L672974	03/22/2023	03/29/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2141 - EPA 5030 (soil)										
Blank (B3C2141-BLK1)					Prepared: 03/21/2023 Analyzed: 03/22/2023					
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		92.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2141 - EPA 5030 (soil)										
LCS (B3C2141-BS1)					Prepared: 03/21/2023 Analyzed: 03/22/2023					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Benzene	0.118	0.00200	"	0.100		118	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2141 - EPA 5030 (soil)

Matrix Spike (B3C2141-MS1)		Source: Y303532-01			Prepared: 03/21/2023 Analyzed: 03/22/2023					
1,2,4-Trimethylbenzene	0.171	0.00200	mg/kg	0.200	ND	85.7	70-130			
1,3,5-Trimethylbenzene	0.173	0.00200	"	0.200	ND	86.6	70-130			
Benzene	0.217	0.00200	"	0.200	ND	108	70-130			
Ethylbenzene	0.191	0.00200	"	0.200	ND	95.3	70-130			
Naphthalene	0.178	0.00380	"	0.200	ND	88.9	70-130			
Toluene	0.184	0.00200	"	0.200	ND	91.8	70-130			
o-Xylene	0.189	0.00200	"	0.200	ND	94.5	70-130			
m,p-Xylene	0.370	0.00400	"	0.400	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2141 - EPA 5030 (soil)										
Matrix Spike Dup (B3C2141-MSD1)		Source: Y303532-01			Prepared: 03/21/2023 Analyzed: 03/22/2023					
1,2,4-Trimethylbenzene	0.132	0.00200	mg/kg	0.200	ND	66.0	70-130	26.0	20	QM-07
1,3,5-Trimethylbenzene	0.132	0.00200	"	0.200	ND	66.0	70-130	27.1	20	QM-07
Benzene	0.186	0.00200	"	0.200	ND	93.2	70-130	15.1	20	
Ethylbenzene	0.151	0.00200	"	0.200	ND	75.5	70-130	23.3	20	QR-02
Naphthalene	0.148	0.00380	"	0.200	ND	74.0	70-130	18.4	20	
Toluene	0.146	0.00200	"	0.200	ND	72.9	70-130	23.0	20	QR-02
o-Xylene	0.151	0.00200	"	0.200	ND	75.5	70-130	22.3	20	QR-02
m,p-Xylene	0.289	0.00400	"	0.400	ND	72.3	70-130	24.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2231 - EPA 3580										
Blank (B3C2231-BLK1)					Prepared: 03/22/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		100	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2231 - EPA 3580

LCS (B3C2231-BS1)

Prepared: 03/22/2023 Analyzed: 03/23/2023

Diesel (C10-C28)	935	50.0	mg/kg	1000		93.5	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.3	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2231 - EPA 3580

Matrix Spike (B3C2231-MS1)		Source: Y303581-02			Prepared: 03/22/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130			
Residual Range Organics (C28-C40)	956	200	"	1000	ND	95.6	70-130			
Surrogate: o-Terphenyl	46		"	49.8		91.8	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2231 - EPA 3580

Matrix Spike Dup (B3C2231-MSD1)		Source: Y303581-02			Prepared: 03/22/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	70-130	3.40	35	
Residual Range Organics (C28-C40)	989	200	"	1000	ND	98.9	70-130	3.42	35	
Surrogate: o-Terphenyl	42		"	49.8		84.7	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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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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 B3C2420 - EPA 3050B

Blank (B3C2420-BLK1)

Prepared: 03/24/2023 Analyzed: 03/28/2023

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 (B3C2420-BS1)

Prepared: 03/24/2023 Analyzed: 03/28/2023

Arsenic	0.0460	0.000100	mg/kg	0.0500		92.1	80-120
Barium	4.92	0.0100	"	5.00		98.4	80-120
Cadmium	0.0505	0.000100	"	0.0500		101	80-120
Copper	0.476	0.0100	"	0.500		95.2	80-120
Lead	0.0524	0.0100	"	0.0500		105	80-120
Nickel	0.0503	0.0100	"	0.0500		101	80-120
Selenium	0.0495	0.000100	"	0.0500		98.9	80-120
Silver	0.0522	0.000100	"	0.0500		104	80-120
Zinc	0.465	0.100	"	0.500		93.0	80-120

Matrix Spike (B3C2420-MS1)

Source: Y303566-01

Prepared: 03/24/2023 Analyzed: 03/28/2023

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2420 - EPA 3050B

Matrix Spike (B3C2420-MS1)		Source: Y303566-01			Prepared: 03/24/2023 Analyzed: 03/28/2023					
Arsenic	10.1	0.0912	mg/kg	4.56	3.11	153	75-125			QM-07
Barium	549	9.12	"	456	73.8	104	75-125			
Cadmium	4.71	0.0912	"	4.56	0.0681	102	75-125			
Copper	47.6	9.12	"	45.6	4.66	94.2	75-125			
Lead	15.5	9.12	"	4.56	5.96	208	75-125			QM-07
Nickel	11.4	9.12	"	4.56	6.35	112	75-125			
Selenium	4.46	0.0912	"	4.56	0.0989	95.7	75-125			
Silver	4.49	0.0912	"	4.56	0.0218	97.9	75-125			
Zinc	74.7	91.2	"	45.6	26.9	105	75-125			U
Matrix Spike Dup (B3C2420-MSD1)		Source: Y303566-01			Prepared: 03/24/2023 Analyzed: 03/28/2023					
Arsenic	6.60	0.0851	mg/kg	4.25	3.11	82.0	75-125	41.9	20	QR-DUP
Barium	486	8.51	"	425	73.8	96.9	75-125	12.1	20	
Cadmium	4.24	0.0851	"	4.25	0.0681	98.1	75-125	10.5	20	
Copper	42.1	8.51	"	42.5	4.66	88.0	75-125	12.2	20	
Lead	9.66	8.51	"	4.25	5.96	87.0	75-125	46.2	20	QR-DUP
Nickel	9.12	8.51	"	4.25	6.35	65.2	75-125	22.6	20	QM-07, QR-DUP
Selenium	4.29	0.0851	"	4.25	0.0989	98.5	75-125	3.89	20	
Silver	4.14	0.0851	"	4.25	0.0218	96.8	75-125	7.99	20	
Zinc	64.4	85.1	"	42.5	26.9	88.2	75-125	14.9	20	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3C2306 - DTPA Sorbitol Preparation

Blank (B3C2306-BLK1)

Prepared: 03/23/2023 Analyzed: 03/24/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3C2306-DUP1)

Source: Y303580-01

Prepared: 03/23/2023 Analyzed: 03/24/2023

Boron	1.06	0.100	mg/L		1.08			1.61	50	
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Batch B3C2307 - DTPA Sorbitol Preparation

Blank (B3C2307-BLK1)

Prepared: 03/23/2023 Analyzed: 03/24/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3C2307-DUP1)

Source: Y303508-04

Prepared: 03/23/2023 Analyzed: 03/24/2023

Boron	20.6	0.101	mg/L		19.1			7.61	50	
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Batch B3C2310 - Saturated Paste Metals

Blank (B3C2310-BLK1)

Prepared: 03/23/2023 Analyzed: 03/24/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B3C2310-DUP1)

Source: Y303580-03

Prepared: 03/23/2023 Analyzed: 03/24/2023

Calcium PPM	399	10.0	mg/L		331			18.6	50	
SAR	0.00		SAR		2.88			200	200	U
Magnesium PPM	211	10.0	mg/L		177			17.9	50	
Sodium PPM	242	10.0	"		261			7.79	50	

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3C2314 - Saturated Paste pH/EC										
Blank (B3C2314-BLK1)					Prepared: 03/23/2023 Analyzed: 03/24/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3C2314-DUP1)					Source: Y303580-03 Prepared: 03/23/2023 Analyzed: 03/24/2023					
pH	7.86		pH Units		7.92			0.760	25	
Specific Conductance (EC)	3.16	0.00500	mmhos/cm		2.99			5.55	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 L673082 -										
DUP (G 59927-DUP)	Source: 59927				Prepared: Analyzed: 03/29/2023					
Chromium, Hexavalent	ND	2.5	mg/Kg		<2.50	-		0	20	
MS (G 59927-MS)	Source: 59927				Prepared: Analyzed: 03/29/2023					
Chromium, Hexavalent	33.6	2.55	mg/Kg	40.8	<1.24	82	75-125			
LCS (LCS)					Prepared: Analyzed: 03/29/2023					
Chromium, Hexavalent	6.55	0.5	mg/Kg	8		82	75-125			
LRB (LRB)					Prepared: Analyzed: 03/29/2023					
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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 L672974 -

DUP (L 88223-DUP)		Source: Y303582-06			Prepared: Analyzed: 03/29/2023					
Chromium, Hexavalent	ND	0.51	mg/Kg		<0.510		-	0	20	
MS (L 88223-MS)		Source: Y303582-06			Prepared: Analyzed: 03/29/2023					
Chromium, Hexavalent	41.9	2.52	mg/Kg	40.3	<1.23	104	75-125			

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

Notes and Definitions

U Sample is Non-Detect.

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

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.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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March 29, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - REI H 17-30D Wellhead

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-30D Wellhead received by Origins Laboratory, Inc. March 22, 2023. This project is associated with Origins project number Y303583-01.

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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@7'	Y303583-01	Soil	March 22, 2023 15:30	03/22/2023 17:08
WH01-RISER@4'-WP	Y303583-02	Soil	March 22, 2023 15:45	03/22/2023 17:08
N01@3'	Y303583-03	Soil	March 22, 2023 15:55	03/22/2023 17:08
E01@3'	Y303583-04	Soil	March 22, 2023 16:00	03/22/2023 17:08
S01@3'	Y303583-05	Soil	March 22, 2023 16:15	03/22/2023 17:08
W01@3'	Y303583-06	Soil	March 22, 2023 16:20	03/22/2023 17:08

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: UB03583

Client: Ensolum

Client Project ID: REI H 17-30D WH1

Checklist Completed by: JSN/DE

Shipped Via: HD

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

Date/time completed: 3/22/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4 °C 1 / _____ °C 1 / _____ °C (Describe)

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

DE
Reviewed by (Project Manager)

03/22/2023
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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

B01@7'

3/22/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B3C2307	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.5 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/22/2023	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	0.269	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.7 %	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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

B01@7'

3/22/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.1 %	70-130	B3C21 41	03/22/2023	03/22/2023
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.789	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672228	03/27/2023	03/28/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

B01@7'

3/22/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303583-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672228	03/27/2023	03/28/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.37	pH Units	1	B3C2315	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	2.86	SAR	1	B3C2311	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.358	0.00500	mmhos/cm	1	B3C2315	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	0.703	0.0982	mg/kg	10	B3C2228	03/22/2023	03/23/2023
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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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

B01@7'

3/22/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-01 (Soil)

Table 915 metals by EPA 6020B

Barium	27.8	9.82	mg/kg	10	B3C2228	03/22/2023	03/23/2023
Cadmium	ND	0.0982	"	"	"	"	"
Copper	ND	9.82	"	"	"	"	"
Selenium	ND	0.0982	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

WH01-RISER@4'-WP
3/22/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3C2307	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/22/2023	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	89.7 %	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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

WH01-RISER@4'-WP
3/22/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.4 %	70-130	B3C21 41	03/22/2023	03/22/2023
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.18	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672228	03/27/2023	03/28/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

WH01-RISER@4'-WP
3/22/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303583-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672228	03/27/2023	03/28/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.13	pH Units	1	B3C2315	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.282	SAR	1	B3C2311	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.168	0.00500	mmhos/cm	1	B3C2315	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.10	0.0912	mg/kg	10	B3C2228	03/22/2023	03/23/2023
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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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

WH01-RISER@4'-WP
3/22/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-02 (Soil)

Table 915 metals by EPA 6020B

Barium	33.9	9.12	mg/kg	10	B3C2228	03/22/2023	03/23/2023
Cadmium	ND	0.0912	"	"	"	"	"
Copper	ND	9.12	"	"	"	"	"
Selenium	ND	0.0912	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

N01@3'

3/22/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B3C2307	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/23/2023	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	93.5 %	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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

N01@3'

3/22/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.2 %	70-130	B3C21 41	03/22/2023	03/23/2023
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.20	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672455	03/28/2023	03/28/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

N01@3'

3/22/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303583-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672455	03/28/2023	03/28/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.15	pH Units	1	B3C2315	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.230	SAR	1	B3C2311	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.225	0.00500	mmhos/cm	1	B3C2315	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.50	0.0957	mg/kg	10	B3C2228	03/22/2023	03/23/2023
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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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

N01@3'

3/22/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-03 (Soil)

Table 915 metals by EPA 6020B

Barium	42.3	9.57	mg/kg	10	B3C2228	03/22/2023	03/23/2023
Cadmium	ND	0.0957	"	"	"	"	"
Copper	ND	9.57	"	"	"	"	"
Selenium	ND	0.0957	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

E01@3'

3/22/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3C2307	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/23/2023	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	90.5 %	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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

E01@3'

3/22/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B3C21 41	03/22/2023	03/23/2023
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672455	03/28/2023	03/28/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

E01@3'

3/22/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303583-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672455	03/28/2023	03/28/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.65	pH Units	1	B3C2315	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.413	SAR	1	B3C2311	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0969	0.00500	mmhos/cm	1	B3C2315	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.15	0.0939	mg/kg	10	B3C2228	03/22/2023	03/23/2023
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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: 09A1417235

Project: KMG - REI H 17-30D Wellhead

E01@3'

3/22/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y303583-04 (Soil)

Table 915 metals by EPA 6020B

Barium	40.8	9.39	mg/kg	10	B3C2228	03/22/2023	03/23/2023
Cadmium	ND	0.0939	"	"	"	"	"
Copper	ND	9.39	"	"	"	"	"
Selenium	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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

S01@3'

3/22/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3C2307	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/23/2023	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	94.1 %	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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

S01@3'

3/22/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %	70-130	B3C21 41	03/22/2023	03/23/2023
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672455	03/28/2023	03/28/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

S01@3'

3/22/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303583-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672455	03/28/2023	03/28/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.74	pH Units	1	B3C2315	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.268	SAR	1	B3C2311	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.122	0.00500	mmhos/cm	1	B3C2315	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.06	0.0936	mg/kg	10	B3C2228	03/22/2023	03/23/2023
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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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

S01@3'

3/22/2023 4:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-05 (Soil)

Table 915 metals by EPA 6020B

Barium	39.9	9.36	mg/kg	10	B3C2228	03/22/2023	03/23/2023
Cadmium	ND	0.0936	"	"	"	"	"
Copper	ND	9.36	"	"	"	"	"
Selenium	ND	0.0936	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

W01@3'

3/22/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.122	0.101	mg/L	1	B3C2307	03/23/2023	03/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2231	03/22/2023	03/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.0 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2141	03/22/2023	03/23/2023	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	88.1 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

W01@3'

3/22/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.0 %	70-130	B3C21 41	03/22/2023	03/23/2023
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.857	0.499	meq/L	10	[CALC]	03/23/2023	03/24/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672455	03/28/2023	03/28/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

W01@3'

3/22/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303583-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672455	03/28/2023	03/28/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.86	pH Units	1	B3C2315	03/23/2023	03/24/2023
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SAR by 20B Saturated Paste

SAR	0.145	SAR	1	B3C2311	03/23/2023	03/24/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.187	0.00500	mmhos/cm	1	B3C2315	03/23/2023	03/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.02	0.0916	mg/kg	10	B3C2228	03/22/2023	03/23/2023
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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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

W01@3'

3/22/2023 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303583-06 (Soil)

Table 915 metals by EPA 6020B

Barium	42.1	9.16	mg/kg	10	B3C2228	03/22/2023	03/23/2023
Cadmium	ND	0.0916	"	"	"	"	"
Copper	ND	9.16	"	"	"	"	"
Selenium	ND	0.0916	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2141 - EPA 5030 (soil)										
Blank (B3C2141-BLK1)					Prepared: 03/21/2023 Analyzed: 03/22/2023					
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		92.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2141 - EPA 5030 (soil)										
LCS (B3C2141-BS1)					Prepared: 03/21/2023 Analyzed: 03/22/2023					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Benzene	0.118	0.00200	"	0.100		118	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.225	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2141 - EPA 5030 (soil)

Matrix Spike (B3C2141-MS1)		Source: Y303532-01			Prepared: 03/21/2023 Analyzed: 03/22/2023					
1,2,4-Trimethylbenzene	0.171	0.00200	mg/kg	0.200	ND	85.7	70-130			
1,3,5-Trimethylbenzene	0.173	0.00200	"	0.200	ND	86.6	70-130			
Benzene	0.217	0.00200	"	0.200	ND	108	70-130			
Ethylbenzene	0.191	0.00200	"	0.200	ND	95.3	70-130			
Naphthalene	0.178	0.00380	"	0.200	ND	88.9	70-130			
Toluene	0.184	0.00200	"	0.200	ND	91.8	70-130			
o-Xylene	0.189	0.00200	"	0.200	ND	94.5	70-130			
m,p-Xylene	0.370	0.00400	"	0.400	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2141 - EPA 5030 (soil)										
Matrix Spike Dup (B3C2141-MSD1)			Source: Y303532-01		Prepared: 03/21/2023 Analyzed: 03/22/2023					
1,2,4-Trimethylbenzene	0.132	0.00200	mg/kg	0.200	ND	66.0	70-130	26.0	20	QM-07
1,3,5-Trimethylbenzene	0.132	0.00200	"	0.200	ND	66.0	70-130	27.1	20	QM-07
Benzene	0.186	0.00200	"	0.200	ND	93.2	70-130	15.1	20	
Ethylbenzene	0.151	0.00200	"	0.200	ND	75.5	70-130	23.3	20	QR-02
Naphthalene	0.148	0.00380	"	0.200	ND	74.0	70-130	18.4	20	
Toluene	0.146	0.00200	"	0.200	ND	72.9	70-130	23.0	20	QR-02
o-Xylene	0.151	0.00200	"	0.200	ND	75.5	70-130	22.3	20	QR-02
m,p-Xylene	0.289	0.00400	"	0.400	ND	72.3	70-130	24.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2231 - EPA 3580										
Blank (B3C2231-BLK1)					Prepared: 03/22/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		100	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2231 - EPA 3580

LCS (B3C2231-BS1)

Prepared: 03/22/2023 Analyzed: 03/23/2023

Diesel (C10-C28)	935	50.0	mg/kg	1000		93.5	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.3	50-150			

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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2231 - EPA 3580

Matrix Spike (B3C2231-MS1)		Source: Y303581-02			Prepared: 03/22/2023 Analyzed: 03/23/2023					
Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130			
Residual Range Organics (C28-C40)	956	200	"	1000	ND	95.6	70-130			
Surrogate: o-Terphenyl	46		"	49.8		91.8	50-150			

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Jeremy Espinoza
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Project: KMG - REI H 17-30D Wellhead

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 B3C2231 - EPA 3580										
Matrix Spike Dup (B3C2231-MSD1)			Source: Y303581-02			Prepared: 03/22/2023 Analyzed: 03/23/2023				
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	70-130	3.40	35	
Residual Range Organics (C28-C40)	989	200	"	1000	ND	98.9	70-130	3.42	35	
Surrogate: o-Terphenyl	42		"	49.8		84.7	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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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 B3C2228 - EPA 3050B

Blank (B3C2228-BLK1)

Prepared: 03/22/2023 Analyzed: 03/23/2023

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 (B3C2228-BS1)

Prepared: 03/22/2023 Analyzed: 03/23/2023

Arsenic	0.0519	0.000100	mg/kg	0.0500	104	80-120
Barium	5.24	0.0100	"	5.00	105	80-120
Cadmium	0.0523	0.000100	"	0.0500	105	80-120
Copper	0.535	0.0100	"	0.500	107	80-120
Lead	0.0507	0.0100	"	0.0500	101	80-120
Nickel	0.0510	0.0100	"	0.0500	102	80-120
Selenium	0.0507	0.000100	"	0.0500	101	80-120
Silver	0.0467	0.000100	"	0.0500	93.5	80-120
Zinc	0.510	0.100	"	0.500	102	80-120

Matrix Spike (B3C2228-MS1)

Source: Y303577-01

Prepared: 03/22/2023 Analyzed: 03/23/2023

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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
Batch B3C2228 - EPA 3050B										
Matrix Spike (B3C2228-MS1)			Source: Y303577-01		Prepared: 03/22/2023 Analyzed: 03/23/2023					
Arsenic	7.82	0.0909	mg/kg	4.54	6.66	25.4	75-125			QM-07
Barium	497	9.09	"	454	44.5	99.7	75-125			
Cadmium	4.72	0.0909	"	4.54	0.163	100	75-125			
Copper	57.8	9.09	"	45.4	21.0	80.8	75-125			
Lead	19.4	9.09	"	4.54	16.9	55.1	75-125			QM-07
Nickel	14.8	9.09	"	4.54	14.6	4.66	75-125			QM-07
Selenium	4.25	0.0909	"	4.54	0.396	84.9	75-125			
Silver	4.08	0.0909	"	4.54	0.0357	89.0	75-125			
Zinc	84.4	90.9	"	45.4	73.3	24.4	75-125			QM-07
Matrix Spike Dup (B3C2228-MSD1)			Source: Y303577-01		Prepared: 03/22/2023 Analyzed: 03/23/2023					
Arsenic	8.95	0.0950	mg/kg	4.75	6.66	48.2	75-125	13.5	20	QM-07
Barium	518	9.50	"	475	44.5	99.7	75-125	4.05	20	
Cadmium	4.94	0.0950	"	4.75	0.163	100	75-125	4.38	20	
Copper	62.3	9.50	"	47.5	21.0	86.9	75-125	7.55	20	
Lead	19.3	9.50	"	4.75	16.9	50.6	75-125	0.527	20	QM-07
Nickel	16.3	9.50	"	4.75	14.6	34.6	75-125	9.21	20	QM-07
Selenium	4.74	0.0950	"	4.75	0.396	91.6	75-125	10.9	20	
Silver	4.25	0.0950	"	4.75	0.0357	88.7	75-125	4.09	20	
Zinc	99.6	95.0	"	47.5	73.3	55.2	75-125	16.4	20	QM-07

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 B3C2307 - DTPA Sorbitol Preparation

Blank (B3C2307-BLK1)

Prepared: 03/23/2023 Analyzed: 03/24/2023

Boron ND 0.100 mg/L

Duplicate (B3C2307-DUP1)

Source: Y303508-04

Prepared: 03/23/2023 Analyzed: 03/24/2023

Boron 20.6 0.101 mg/L 19.1 7.61 50

Batch B3C2311 - Saturated Paste Metals

Blank (B3C2311-BLK1)

Prepared: 03/23/2023 Analyzed: 03/24/2023

SAR 0.00 SAR
Calcium PPM ND 10.0 mg/L
Magnesium PPM ND 10.0 "
Sodium PPM ND 10.0 "

Duplicate (B3C2311-DUP1)

Source: Y303507-01

Prepared: 03/23/2023 Analyzed: 03/24/2023

SAR 0.00 SAR 0.892 200 200
Calcium PPM 57.6 10.0 mg/L 62.1 7.51 50
Magnesium PPM 7.03 10.0 " 7.77 9.96 50
Sodium PPM 25.8 10.0 " 28.1 8.46 50

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Project: KMG - REI H 17-30D Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3C2315 - Saturated Paste pH/EC										
Blank (B3C2315-BLK1)					Prepared: 03/23/2023 Analyzed: 03/24/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3C2315-DUP1)					Source: Y303507-01 Prepared: 03/23/2023 Analyzed: 03/24/2023					
Specific Conductance (EC)	0.548	0.00500	mmhos/cm		0.621			12.4	25	
pH	8.10		pH Units		8.08			0.247	25	

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Project: KMG - REI H 17-30D Wellhead

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 L672455 - 3550B

MSD (L 87447-MSD-L672455)		Source: Y303583-06			Prepared: 03/28/2023 Analyzed: 03/28/2023					
1-Methylnaphthalene	0.0772	0.00201	mg/Kg	0.167	<0.00109	46.2	30-130	35	30	*
Chrysene	0.0827	0.00067	"	0.167	<0.000624	49.5	30-130	34.3	30	*
Benzo(b)fluoranthene	0.055	0.00067	"	0.167	<0.000585	32.9	30-130	20.7	30	
Pyrene	0.0815	0.00067	"	0.167	<0.000643	48.8	30-130	34.9	30	*
Naphthalene	0.0733	0.00201	"	0.167	<0.00145	43.8	30-130	34.6	30	*
Indeno(1,2,3-cd)pyrene	0.0598	0.00067	"	0.167	<0.000627	35.8	30-130	47.5	30	*
Fluorene	0.0785	0.00067	"	0.167	<0.000286	47	30-130	36.8	30	*
Fluoranthene	0.082	0.00067	"	0.167	<0.000394	49.1	30-130	36	30	*
Dibenz(a,h)anthracene	0.0832	0.00067	"	0.167	<0.000614	49.8	30-130	45.3	30	*
Benzo(k)fluoranthene	0.0796	0.00067	"	0.167	<0.000437	47.6	30-130	14	30	
Benzo(a)pyrene	0.0817	0.00067	"	0.167	<0.000468	48.9	30-130	39.5	30	*
Benzo(a)anthracene	0.0783	0.00067	"	0.167	<0.000493	46.8	30-130	37.1	30	*
Anthracene	0.0821	0.00067	"	0.167	<0.000334	49.1	30-130	36.6	30	*
Acenaphthene	0.078	0.00067	"	0.167	<0.000304	46.7	30-130	33.1	30	*
2-Methylnaphthalene	0.0771	0.00201	"	0.167	<0.00194	46.1	30-130	35.1	30	*
Surrogate: Nitrobenzene-d5	40.2		"	0.333	184	40.2	29-110			
Surrogate: 2-Fluorobiphenyl	38.7		"	0.333	184	38.7	33-115			
Surrogate: 4-Terphenyl-d14	45.3		"	0.333	199	45.3	33-122			

MS (L 87447-MS-L672455)		Source: Y303583-06			Prepared: 03/28/2023 Analyzed: 03/28/2023					
Fluorene	0.114	0.00067	mg/Kg	0.162	<0.000286	70.3	30-130			
Acenaphthene	0.109	0.00067	"	0.162	<0.000304	67.2	30-130			
Anthracene	0.119	0.00067	"	0.162	<0.000334	73.4	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.162	<0.000493	70.3	30-130			
Benzo(a)pyrene	0.122	0.00067	"	0.162	<0.000468	75.3	30-130			
Benzo(k)fluoranthene	0.0916	0.00067	"	0.162	<0.000437	56.5	30-130			
Fluoranthene	0.118	0.00067	"	0.162	<0.000394	72.8	30-130			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 L672455 - 3550B

MS (L 87447-MS-L672455)		Source: Y303583-06			Prepared: 03/28/2023 Analyzed: 03/28/2023					
Pyrene	0.116	0.00067	mg/Kg	0.162	<0.000643	71.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0971	0.00067	"	0.162	<0.000627	59.9	30-130			
Naphthalene	0.104	0.00201	"	0.162	<0.00145	64.1	30-130			
2-Methylnaphthalene	0.11	0.00201	"	0.162	<0.00194	67.9	30-130			
Benzo(b)fluoranthene	0.0677	0.00067	"	0.162	<0.000585	41.7	30-130			
Dibenz(a,h)anthracene	0.132	0.00067	"	0.162	<0.000614	81.4	30-130			
Chrysene	0.117	0.00067	"	0.162	<0.000624	72.2	30-130			
1-Methylnaphthalene	0.11	0.00201	"	0.162	<0.00109	67.9	30-130			
Surrogate: 4-Terphenyl-d14	63		"	0.325	199	63	33-122			
Surrogate: Nitrobenzene-d5	56		"	0.325	184	56	29-110			
Surrogate: 2-Fluorobiphenyl	53.8		"	0.325	184	53.8	33-115			

LCS (LCS-L672455)		Prepared: 03/28/2023 Analyzed: 03/28/2023								
1-Methylnaphthalene	0.125	0.00201	mg/Kg	0.167		74.8	30-130			
2-Methylnaphthalene	0.125	0.00201	"	0.167		74.8	30-130			
Acenaphthene	0.124	0.00067	"	0.167		74.2	30-130			
Anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Benzo(k)fluoranthene	0.105	0.00067	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.167		74.2	30-130			
Chrysene	0.129	0.00067	"	0.167		77.2	30-130			
Dibenz(a,h)anthracene	0.137	0.00067	"	0.167		82	30-130			
Fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Fluorene	0.128	0.00067	"	0.167		76.6	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.00067	"	0.167		61.6	30-130			
Naphthalene	0.119	0.00201	"	0.167		71.2	30-130			
Pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(a)pyrene	0.132	0.00067	"	0.167		79	30-130			

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Project: KMG - REI H 17-30D Wellhead

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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 L672455 - 3550B

LCS (LCS-L672455)

Prepared: 03/28/2023 Analyzed: 03/28/2023

Benzo(b)fluoranthene	0.0767	0.00067	mg/Kg	0.167		45.9	30-130			
Surrogate: 2-Fluorobiphenyl	66.6		"	0.333		66.6	33-115			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333		74.1	33-122			
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			

LRB (LRB-L672455)

Prepared: 03/28/2023 Analyzed: 03/28/2023

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	61.8		"	0.333		61.8	33-115			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333		70.8	33-122			
Surrogate: Nitrobenzene-d5	63.6		"	0.333		63.6	29-110			

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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 L672228 - 3550B

MSD (L 87425-MSD-L672228)		Source: 87425			Prepared: 03/27/2023 Analyzed: 03/28/2023					
Chrysene	0.115	0.00067	mg/Kg	0.166	<0.000624	69.2	30-130	5	30	
Pyrene	0.113	0.00067	"	0.166	<0.000643	68	30-130	3.4	30	
Naphthalene	0.0931	0.00201	"	0.166	<0.00145	56	30-130	5.3	30	
Indeno(1,2,3-cd)pyrene	0.0942	0.00067	"	0.166	<0.000627	56.7	30-130	5.8	30	
Fluorene	0.105	0.00067	"	0.166	<0.000286	63.2	30-130	2.8	30	
Fluoranthene	0.116	0.00067	"	0.166	<0.000394	69.8	30-130	1.7	30	
Acenaphthene	0.0993	0.00067	"	0.166	<0.000304	59.8	30-130	6.5	30	
Dibenz(a,h)anthracene	0.124	0.00067	"	0.166	<0.000614	74.6	30-130	8.4	30	
Benzo(k)fluoranthene	0.11	0.00067	"	0.166	<0.000437	66.2	30-130	11.6	30	
Benzo(b)fluoranthene	0.0839	0.00067	"	0.166	<0.000585	50.5	30-130	8.3	30	
Benzo(a)pyrene	0.117	0.00067	"	0.166	<0.000468	70.4	30-130	5	30	
Benzo(a)anthracene	0.108	0.00067	"	0.166	<0.000493	65	30-130	8	30	
1-Methylnaphthalene	0.0985	0.00201	"	0.166	<0.00109	59.3	30-130	5.4	30	
2-Methylnaphthalene	0.0982	0.00201	"	0.166	<0.00194	59.1	30-130	6.6	30	
Anthracene	0.11	0.00067	"	0.166	<0.000334	66.2	30-130	6.1	30	
Surrogate: Nitrobenzene-d5	54		"	0.331	188	54	29-110			
Surrogate: 4-Terphenyl-d14	65.5		"	0.331	243	65.5	33-122			
Surrogate: 2-Fluorobiphenyl	51.3		"	0.331	167	51.3	33-115			

MS (L 87425-MS-L672228)		Source: 87425			Prepared: 03/27/2023 Analyzed: 03/28/2023					
2-Methylnaphthalene	0.105	0.00201	mg/Kg	0.167	<0.00194	62.8	30-130			
Fluorene	0.108	0.00067	"	0.167	<0.000286	64.6	30-130			
1-Methylnaphthalene	0.104	0.00201	"	0.167	<0.00109	62.2	30-130			
Pyrene	0.117	0.00067	"	0.167	<0.000643	70	30-130			
Indeno(1,2,3-cd)pyrene	0.0999	0.00067	"	0.167	<0.000627	59.8	30-130			
Fluoranthene	0.118	0.00067	"	0.167	<0.000394	70.6	30-130			
Dibenz(a,h)anthracene	0.135	0.00067	"	0.167	<0.000614	80.8	30-130			

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: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 L672228 - 3550B

MS (L 87425-MS-L672228)		Source: 87425			Prepared: 03/27/2023 Analyzed: 03/28/2023					
Acenaphthene	0.106	0.00067	mg/Kg	0.167	<0.000304	63.4	30-130			
Benzo(k)fluoranthene	0.0979	0.00067	"	0.167	<0.000437	58.6	30-130			
Benzo(b)fluoranthene	0.0772	0.00067	"	0.167	<0.000585	46.2	30-130			
Benzo(a)pyrene	0.123	0.00067	"	0.167	<0.000468	73.6	30-130			
Benzo(a)anthracene	0.117	0.00067	"	0.167	<0.000493	70	30-130			
Anthracene	0.117	0.00067	"	0.167	<0.000334	70	30-130			
Chrysene	0.121	0.00067	"	0.167	<0.000624	72.4	30-130			
Naphthalene	0.0982	0.00201	"	0.167	<0.00145	58.8	30-130			
Surrogate: Nitrobenzene-d5	56.1		"	0.333	188	56.1	29-110			
Surrogate: 2-Fluorobiphenyl	52.2		"	0.333	167	52.2	33-115			
Surrogate: 4-Terphenyl-d14	64.5		"	0.333	243	64.5	33-122			

LCS (LCS-L672228)		Prepared: 03/27/2023 Analyzed: 03/28/2023								
Chrysene	0.122	0.00067	mg/Kg	0.167		73	30-130			
Fluoranthene	0.122	0.00067	"	0.167		73	30-130			
Fluorene	0.112	0.00067	"	0.167		67	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.00067	"	0.167		67	30-130			
Naphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Pyrene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(k)fluoranthene	0.108	0.00067	"	0.167		64.6	30-130			
1-Methylnaphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(a)anthracene	0.119	0.00067	"	0.167		71.2	30-130			
Anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Acenaphthene	0.112	0.00067	"	0.167		67	30-130			
2-Methylnaphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.134	0.00067	"	0.167		80.2	30-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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 L672228 - 3550B

LCS (LCS-L672228)

Prepared: 03/27/2023 Analyzed: 03/28/2023

Benzo(b)fluoranthene	0.0883	0.00067	mg/Kg	0.167		52.8	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	0.333	60.3		29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.333	69		33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.333	60		33-115			

LRB (LRB-L672228)

Prepared: 03/27/2023 Analyzed: 03/28/2023

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57.3		"	0.333	57.3		29-110			
Surrogate: 4-Terphenyl-d14	62.7		"	0.333	62.7		33-122			
Surrogate: 2-Fluorobiphenyl	57		"	0.333	57		33-115			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-30D Wellhead

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.

* 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.

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.

April 19, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - REI H 17-21D Wellhead

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-21D Wellhead received by Origins Laboratory, Inc. April 12, 2023. This project is associated with Origins project number Y304260-01.

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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@1.5'	Y304260-01	Soil	April 12, 2023 13:15	04/12/2023 15:53
SS02@1.5'	Y304260-02	Soil	April 12, 2023 13:20	04/12/2023 15:53

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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 43-04260

Client: Ensolum

Client Project ID: REI H 17-21D WH

Checklist Completed by: EHS/TJM

Shipped Via: HO

Date/time completed: 4/12/23

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

Airbill #: NA

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

Water

Other:

Cooler Number/Temperature: 1, 28 °C / °C / °C (Describe) °C

Thermometer ID: 100H

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)

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS01@1.5'

4/12/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304260-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.216	0.0994	mg/L	1	B3D1311	04/13/2023	04/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1226	04/12/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.2 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1229	04/12/2023	04/12/2023	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	89.2 %	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS01@1.5'

4/12/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304260-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	88.9 %	70-130	B3D12 29	04/12/2023	04/12/2023
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	04/13/2023	04/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.66	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L676626	04/18/2023	04/18/2023
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	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS01@1.5'

4/12/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304260-01 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L676626	04/18/2023	04/18/2023
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Surrogate: 2-Fluorobiphenyl	52.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	54.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	46.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.09			pH Units	1	B3D1315	04/13/2023	04/14/2023
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SAR by 20B Saturated Paste

SAR	3.07			SAR	1	B3D1306	04/13/2023	04/14/2023
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Table 915 metals by EPA 6020B

Arsenic	1.56	0.0879	mg/kg	10	B3D1308	04/13/2023	04/13/2023
Barium	55.4	8.79	"	"	"	"	"
Cadmium	ND	0.0879	"	"	"	"	"
Copper	ND	8.79	"	"	"	"	"
Selenium	ND	0.0879	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02@1.5'

4/12/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304260-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0997	mg/L	1	B3D1311	04/13/2023	04/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1226	04/12/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1229	04/12/2023	04/12/2023	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	96.3 %	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02@1.5'

4/12/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304260-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.0 %	70-130	B3D12 29	04/12/2023	04/12/2023
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.32	0.499	meq/L	10	[CALC]	04/13/2023	04/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L676626	04/18/2023	04/18/2023
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	"	"	"	"	"
Chrysene	0.000691	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02@1.5'

4/12/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304260-02 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L676626	04/18/2023	04/18/2023
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Surrogate: 2-Fluorobiphenyl	55.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	53.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	48.9 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.09			pH Units	1	B3D1315	04/13/2023	04/14/2023
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SAR by 20B Saturated Paste

SAR	0.0472			SAR	1	B3D1306	04/13/2023	04/14/2023
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Table 915 metals by EPA 6020B

Arsenic	1.57	0.0954	mg/kg	10	B3D1302	04/13/2023	04/13/2023
Barium	113	9.54	"	"	"	"	"
Cadmium	ND	0.0954	"	"	"	"	"
Copper	ND	9.54	"	"	"	"	"
Selenium	ND	0.0954	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1226 - EPA 3550B										
Blank (B3D1226-BLK1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.1	50-150			

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1226 - EPA 3550B										
LCS (B3D1226-BS1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
Diesel (C10-C28)	881	50.0	mg/kg	1000		88.1	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000		88.7	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.3	50-150			

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Project: KMG - REI H 17-21D Wellhead

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 B3D1226 - EPA 3550B

Matrix Spike (B3D1226-MS1)		Source: Y304260-01			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000	ND	90.9	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	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
Batch B3D1226 - EPA 3550B										
Matrix Spike Dup (B3D1226-MSD1)		Source: Y304260-01			Prepared: 04/12/2023 Analyzed: 04/12/2023					
Diesel (C10-C28)	887	50.0	mg/kg	1000	ND	88.7	70-130	0.157	35	
Residual Range Organics (C28-C40)	905	200	"	1000	ND	90.5	70-130	0.401	35	
Surrogate: o-Terphenyl	47		"	49.8		95.1	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
Batch B3D1229 - EPA 5030 (soil)										
Blank (B3D1229-BLK1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
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	0.10		"	0.125		82.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Project: KMG - REI H 17-21D Wellhead

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 B3D1229 - EPA 5030 (soil)										
LCS (B3D1229-BS1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100		89.3	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0966	0.00200	"	0.100		96.6	70-130			
o-Xylene	0.0993	0.00200	"	0.100		99.3	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: KMG - REI H 17-21D Wellhead

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 B3D1229 - EPA 5030 (soil)

Matrix Spike (B3D1229-MS1)		Source: Y304260-01			Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100	ND	87.5	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130			
Toluene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
o-Xylene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1229 - EPA 5030 (soil)										
Matrix Spike Dup (B3D1229-MSD1)			Source: Y304260-01		Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	0.0857	0.00200	mg/kg	0.100	ND	85.7	70-130	2.17	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.01	20	
Benzene	0.0987	0.00200	"	0.100	ND	98.7	70-130	1.77	20	
Ethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	2.48	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	1.95	20	
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130	1.09	20	
o-Xylene	0.0927	0.00200	"	0.100	ND	92.7	70-130	2.60	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130	3.22	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.3	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

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 B3D1302 - EPA 3050B

Blank (B3D1302-BLK1)

Prepared: 04/13/2023 Analyzed: 04/13/2023

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 (B3D1302-BS1)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Arsenic	0.0505	0.000100	mg/kg	0.0500	101	80-120
Barium	5.03	0.0100	"	5.00	101	80-120
Cadmium	0.0493	0.000100	"	0.0500	98.6	80-120
Copper	0.515	0.0100	"	0.500	103	80-120
Lead	0.0483	0.0100	"	0.0500	96.7	80-120
Nickel	0.0544	0.0100	"	0.0500	109	80-120
Selenium	0.0487	0.000100	"	0.0500	97.4	80-120
Silver	0.0472	0.000100	"	0.0500	94.4	80-120
Zinc	0.500	0.100	"	0.500	100	80-120

Matrix Spike (B3D1302-MS1)

Source: Y304262-01

Prepared: 04/13/2023 Analyzed: 04/13/2023

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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 B3D1302 - EPA 3050B

Matrix Spike (B3D1302-MS1)		Source: Y304262-01			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Arsenic	7.80	0.0994	mg/kg	4.97	2.84	99.8	75-125			
Barium	557	9.94	"	497	111	89.9	75-125			
Cadmium	4.64	0.0994	"	4.97	0.0941	91.4	75-125			
Copper	52.2	9.94	"	49.7	9.53	85.8	75-125			
Lead	13.6	9.94	"	4.97	10.6	60.5	75-125			QM-07
Nickel	14.8	9.94	"	4.97	11.9	59.7	75-125			QM-07
Selenium	4.07	0.0994	"	4.97	0.0989	79.9	75-125			
Silver	4.29	0.0994	"	4.97	0.0466	85.3	75-125			
Zinc	83.7	99.4	"	49.7	46.4	75.2	75-125			

Matrix Spike Dup (B3D1302-MSD1)		Source: Y304262-01			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Arsenic	7.15	0.0921	mg/kg	4.61	2.84	93.6	75-125	8.71	20	
Barium	559	9.21	"	461	111	97.3	75-125	0.274	20	
Cadmium	4.42	0.0921	"	4.61	0.0941	93.8	75-125	4.87	20	
Copper	50.7	9.21	"	46.1	9.53	89.3	75-125	2.89	20	
Lead	14.5	9.21	"	4.61	10.6	85.1	75-125	6.50	20	
Nickel	14.5	9.21	"	4.61	11.9	57.2	75-125	2.25	20	QM-07
Selenium	3.92	0.0921	"	4.61	0.0989	82.9	75-125	3.81	20	
Silver	4.00	0.0921	"	4.61	0.0466	85.9	75-125	6.81	20	
Zinc	80.4	92.1	"	46.1	46.4	73.8	75-125	4.07	20	QM-07

Batch B3D1308 - EPA 3050B

Blank (B3D1308-BLK1)		Prepared: 04/13/2023 Analyzed: 04/13/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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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 B3D1308 - EPA 3050B

Blank (B3D1308-BLK1)

Prepared: 04/13/2023 Analyzed: 04/13/2023

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

LCS (B3D1308-BS1)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Arsenic	0.0518	0.000100	mg/kg	0.0500	104	80-120
Barium	5.06	0.0100	"	5.00	101	80-120
Cadmium	0.0502	0.000100	"	0.0500	100	80-120
Copper	0.524	0.0100	"	0.500	105	80-120
Lead	0.0490	0.0100	"	0.0500	97.9	80-120
Nickel	0.0519	0.0100	"	0.0500	104	80-120
Selenium	0.0488	0.000100	"	0.0500	97.7	80-120
Silver	0.0500	0.000100	"	0.0500	100	80-120
Zinc	0.517	0.100	"	0.500	103	80-120

Matrix Spike (B3D1308-MS1)

Source: Y304215-01

Prepared: 04/13/2023 Analyzed: 04/13/2023

Arsenic	7.41	0.0992	mg/kg	4.96	3.02	88.6	75-125	
Barium	538	9.92	"	496	267	54.6	75-125	QM-07
Cadmium	4.70	0.0992	"	4.96	0.0856	93.0	75-125	
Copper	50.4	9.92	"	49.6	6.24	89.1	75-125	
Lead	11.1	9.92	"	4.96	13.2	NR	75-125	QM-07
Nickel	11.0	9.92	"	4.96	6.75	84.9	75-125	
Selenium	4.40	0.0992	"	4.96	0.0856	87.0	75-125	
Silver	4.70	0.0992	"	4.96	0.0406	93.9	75-125	

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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
Batch B3D1308 - EPA 3050B										
Matrix Spike (B3D1308-MS1)		Source: Y304215-01			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Zinc	72.2	99.2	mg/kg	49.6	37.4	70.3	75-125			QM-07
Matrix Spike Dup (B3D1308-MSD1)		Source: Y304215-01			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Arsenic	7.96	0.0915	mg/kg	4.58	3.02	108	75-125	7.12	20	
Barium	563	9.15	"	458	267	64.8	75-125	4.67	20	QM-07
Cadmium	4.42	0.0915	"	4.58	0.0856	94.7	75-125	6.05	20	
Copper	50.6	9.15	"	45.8	6.24	96.9	75-125	0.274	20	
Lead	19.9	9.15	"	4.58	13.2	146	75-125	56.2	20	QM-07, QR-DUP
Nickel	11.7	9.15	"	4.58	6.75	109	75-125	6.85	20	
Selenium	4.08	0.0915	"	4.58	0.0856	87.2	75-125	7.64	20	
Silver	4.42	0.0915	"	4.58	0.0406	95.6	75-125	6.16	20	
Zinc	78.7	91.5	"	45.8	37.4	90.2	75-125	8.51	20	

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Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1306 - Saturated Paste Metals

Blank (B3D1306-BLK1)

Prepared: 04/13/2023 Analyzed: 04/14/2023

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B3D1306-DUP1)

Source: Y304254-10

Prepared: 04/13/2023 Analyzed: 04/14/2023

Calcium PPM	1.97	10.0	mg/L	2.11	7.02	50
SAR	0.00		SAR	9.02	200	200
Magnesium PPM	0.670	10.0	mg/L	0.634	5.52	50
Sodium PPM	51.0	10.0	"	58.2	13.1	50

Batch B3D1311 - DTPA Sorbitol Preparation

Blank (B3D1311-BLK1)

Prepared: 04/13/2023 Analyzed: 04/14/2023

Boron	ND	0.100	mg/L
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Duplicate (B3D1311-DUP1)

Source: Y304254-10

Prepared: 04/13/2023 Analyzed: 04/14/2023

Boron	0.301	0.0982	mg/L	0.377	22.3	50
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Project: KMG - REI H 17-21D Wellhead

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 B3D1315 - Saturated Paste pH/EC

Duplicate (B3D1315-DUP1)		Source: Y304254-10			Prepared: 04/13/2023 Analyzed: 04/14/2023					
pH	8.67		pH Units		8.69			0.230	25	

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Project Number: 09A1417235
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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 L676626 - 3550B

MSD (L 96850-MSD-L676626)		Source: 96850			Prepared: 04/18/2023 Analyzed: 04/18/2023					
Chrysene	0.103	0.00067	mg/Kg	0.166	<0.000624	62	30-130	0	30	
Acenaphthene	0.0985	0.00067	"	0.166	<0.000304	59.3	30-130	5.6	30	
Pyrene	0.112	0.00067	"	0.166	<0.000643	67.4	30-130	2.7	30	
Naphthalene	0.0943	0.00201	"	0.166	<0.00145	56.8	30-130	9.4	30	
Indeno(1,2,3-cd)pyrene	0.082	0.00067	"	0.166	<0.000627	49.3	30-130	0.7	30	
Fluorene	0.102	0.00067	"	0.166	<0.000286	61.4	30-130	2.6	30	
Dibenz(a,h)anthracene	0.0898	0.00067	"	0.166	<0.000614	54	30-130	2.1	30	
Benzo(a)pyrene	0.105	0.00067	"	0.166	<0.000468	63.2	30-130	2.8	30	
Anthracene	0.104	0.00067	"	0.166	<0.000334	62.6	30-130	4.3	30	
2-Methylnaphthalene	0.0966	0.00201	"	0.166	<0.00194	58.1	30-130	7.8	30	
1-Methylnaphthalene	0.0962	0.00201	"	0.166	<0.00109	57.9	30-130	9	30	
Benzo(a)anthracene	0.121	0.00067	"	0.166	<0.000493	72.8	30-130	1.6	30	
Surrogate: Nitrobenzene-d5	50.1		"	0.331	179	50.1	29-110			
Surrogate: 4-Terphenyl-d14	59.2		"	0.331	194	59.2	33-122			
Surrogate: 2-Fluorobiphenyl	48.6		"	0.331	168	48.6	33-115			

MS (L 96850-MS-L676626)		Source: 96850			Prepared: 04/18/2023 Analyzed: 04/18/2023					
Benzo(a)pyrene	0.102	0.00067	mg/Kg	0.166	<0.000468	61.4	30-130			
Chrysene	0.103	0.00067	"	0.166	<0.000624	62	30-130			
Naphthalene	0.0858	0.00201	"	0.166	<0.00145	51.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0814	0.00067	"	0.166	<0.000627	49	30-130			
Dibenz(a,h)anthracene	0.0879	0.00067	"	0.166	<0.000614	52.9	30-130			
Pyrene	0.109	0.00067	"	0.166	<0.000643	65.6	30-130			
Anthracene	0.0996	0.00067	"	0.166	<0.000334	60	30-130			
Acenaphthene	0.0931	0.00067	"	0.166	<0.000304	56	30-130			
2-Methylnaphthalene	0.0893	0.00201	"	0.166	<0.00194	53.7	30-130			
1-Methylnaphthalene	0.0879	0.00201	"	0.166	<0.00109	52.9	30-130			

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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
Batch L676626 - 3550B										
MS (L 96850-MS-L676626)		Source: 96850			Prepared: 04/18/2023 Analyzed: 04/18/2023					
Fluorene	0.0993	0.00067	mg/Kg	0.166	<0.000286	59.8	30-130			
Benzo(a)anthracene	0.119	0.00067	"	0.166	<0.000493	71.6	30-130			
Surrogate: Nitrobenzene-d5	38.2		"	0.332	179	38.2	29-110			
Surrogate: 4-Terphenyl-d14	59		"	0.332	194	59	33-122			
Surrogate: 2-Fluorobiphenyl	45.4		"	0.332	168	45.4	33-115			
LCS (LCS-L676626)		Prepared: 04/18/2023 Analyzed: 04/18/2023								
Fluorene	0.117	0.00067	mg/Kg	0.167		70	30-130			
Pyrene	0.125	0.00067	"	0.167		74.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0967	0.00067	"	0.167		57.9	30-130			
Dibenz(a,h)anthracene	0.102	0.00067	"	0.167		61	30-130			
Chrysene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)pyrene	0.129	0.00067	"	0.167		77.2	30-130			
Anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Acenaphthene	0.113	0.00067	"	0.167		67.6	30-130			
2-Methylnaphthalene	0.111	0.00201	"	0.167		66.4	30-130			
1-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Naphthalene	0.107	0.00201	"	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	58.5		"	0.333		58.5	29-110			
Surrogate: 4-Terphenyl-d14	67.2		"	0.333		67.2	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			
LRB (LRB-L676626)		Prepared: 04/18/2023 Analyzed: 04/18/2023								
2-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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
Batch L676626 - 3550B										
LRB (LRB-L676626)					Prepared: 04/18/2023 Analyzed: 04/18/2023					
Fluorene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)pyrene	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	48.9		"	0.333	48.9		29-110			
Surrogate: 4-Terphenyl-d14	57.3		"	0.333	57.3		33-122			
Surrogate: 2-Fluorobiphenyl	46.5		"	0.333	46.5		33-115			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Notes and Definitions

U Sample is Non-Detect.

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.

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.



April 25, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - REI H 17-21D Wellhead

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-21D Wellhead received by Origins Laboratory, Inc. April 13, 2023. This project is associated with Origins project number Y304300-01.

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

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

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

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

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

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



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-Riser@4'(REI H17-21D)	Y304300-01	Soil	April 13, 2023 13:30	04/13/2023 16:10
SEP01-Riser@4'(REI 17-30D)	Y304300-02	Soil	April 13, 2023 13:40	04/13/2023 16:10

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Groundwater	Soil	Full Table 915-1	BTEXN	1,2,4/1,3,5-TMB	TPH-GRO/DRO/DRO	EC/pH/SAR/Boron (SP)	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other								
SE101-01024 (REI H 17-21D)	4/13/23	1330	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1340	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1350	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1400	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1410	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1420	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1430	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1440	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1450	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1500	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1510	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1520	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1530	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1540	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1550	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1600	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1610	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1620	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1630	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1640	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1650	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1700	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1710	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1720	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1730	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1740	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1750	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1800	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1810	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1820	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1830	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1840	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1850	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1900	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1910	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1920	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1930	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1940	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	1950	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2000	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2010	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2020	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2030	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2040	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2050	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2100	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2110	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2120	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2130	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2140	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2150	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2200	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2210	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2220	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2230	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2240	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2250	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2300	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2310	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2320	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2330	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2340	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2350	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2400	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2410	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2420	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2430	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2440	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2450	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2500	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2510	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2520	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2530	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2540	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2550	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2600	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2610	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2620	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2630	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2640	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2650	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2700	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2710	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2720	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2730	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2740	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2750	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2800	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2810	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2820	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2830	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2840	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2850	3	X											
SE101-01024 (REI H 17-21D)	4/13/23	2900	3	X											

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Origins Laboratory

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

4304300 Sample Receipt Checklist

Origins Work Order: 4304105

Client: Ensolum

Client Project ID: REI H 17-21D

Checklist Completed by: JNT/EHS

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

Date/time completed: 4/13/23

Airbill #: _____

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

Cooler Number/Temperature: 1 / 0 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 7504

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.

Sam Antone
Reviewed by (Project Manager)

4/13/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SEP01-Riser@4'(REI H17-21D)

4/13/2023 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y304300-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B3D1402	KAP	04/14/2023	04/17/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1326	ZZZ	04/13/2023	04/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	77.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1328	ZZZ	04/13/2023	04/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	83.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

SEP01-Riser@4'(REI H17-21D)

4/13/2023 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y304300-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.72	0.499	meq/L	10	[CALC]	KAP	04/14/2023	04/18/2023
Magnesium	0.831	0.823	"	"	"	KAP	"	"
Sodium	0.568	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B3D1414	HJD	04/14/2023	04/18/2023
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SAR by 20B Saturated Paste

SAR	0.427		SAR	1	B3D1408	KAP	04/14/2023	04/18/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.390	0.00500	mmhos/cm	1	B3D1414	HJD	04/14/2023	04/18/2023
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SEP01-Riser@4'(REI 17-30D)

4/13/2023 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y304300-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.105	0.0981	mg/L	1	B3D1402	KAP	04/14/2023	04/17/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D1326	ZZZ	04/13/2023	04/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	78.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1328	ZZZ	04/13/2023	04/14/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.5 %	70-130			"	"	"
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SEP01-Riser@4'(REI 17-30D)

4/13/2023 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y304300-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	KAP	04/14/2023	04/18/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.26		pH Units	1	B3D1414	HJD	04/14/2023	04/18/2023
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SAR by 20B Saturated Paste

SAR	0.131		SAR	1	B3D1408	KAP	04/14/2023	04/18/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.163	0.00500	mmhos/cm	1	B3D1414	HJD	04/14/2023	04/18/2023
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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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3D1326 - EPA 3550B										
Blank (B3D1326-BLK1)					Prepared: 04/13/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		78.1	50-150			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3D1326 - EPA 3550B

LCS (B3D1326-BS1)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Diesel (C10-C28)	871	50.0	mg/kg	1000		87.1	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000		86.8	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.6	50-150			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3D1326 - EPA 3550B										
LCS Dup (B3D1326-BSD1)					Prepared: 04/13/2023 Analyzed: 04/13/2023					
Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130	1.44	35	
Residual Range Organics (C28-C40)	857	200	"	1000		85.7	70-130	1.37	35	
Surrogate: o-Terphenyl	41		"	49.8		82.3	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1328 - EPA 5030 (soil)										
Blank (B3D1328-BLK1)					Prepared: 04/13/2023 Analyzed: 04/13/2023					
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	0.091		"	0.125		73.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1328 - EPA 5030 (soil)										
LCS (B3D1328-BS1)					Prepared: 04/13/2023 Analyzed: 04/13/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0888	0.00200	"	0.100		88.8	70-130			
Ethylbenzene	0.0983	0.00200	"	0.100		98.3	70-130			
Naphthalene	0.115	0.00380	"	0.100		115	70-130			
Toluene	0.0902	0.00200	"	0.100		90.2	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.095		"	0.125		76.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1328 - EPA 5030 (soil)										
Matrix Spike (B3D1328-MS1)		Source: Y304296-01			Prepared: 04/13/2023 Analyzed: 04/13/2023					
1,2,4-Trimethylbenzene	0.0835	0.00200	mg/kg	0.100	ND	83.5	70-130			
1,3,5-Trimethylbenzene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
Benzene	0.0750	0.00200	"	0.100	ND	75.0	70-130			
Ethylbenzene	0.0785	0.00200	"	0.100	ND	78.5	70-130			
Naphthalene	0.0992	0.00380	"	0.100	0.00102	98.2	70-130			
Toluene	0.0738	0.00200	"	0.100	ND	73.8	70-130			
o-Xylene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.099		"	0.125		79.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1328 - EPA 5030 (soil)										
Matrix Spike Dup (B3D1328-MSD1)		Source: Y304296-01			Prepared: 04/13/2023 Analyzed: 04/13/2023					
1,2,4-Trimethylbenzene	0.0811	0.00200	mg/kg	0.100	ND	81.1	70-130	2.96	20	
1,3,5-Trimethylbenzene	0.0805	0.00200	"	0.100	ND	80.5	70-130	2.45	20	
Benzene	0.0740	0.00200	"	0.100	ND	74.0	70-130	1.34	20	
Ethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130	1.95	20	
Naphthalene	0.0983	0.00380	"	0.100	0.00102	97.2	70-130	0.992	20	
Toluene	0.0720	0.00200	"	0.100	ND	72.0	70-130	2.47	20	
o-Xylene	0.0844	0.00200	"	0.100	ND	84.4	70-130	1.23	20	
m,p-Xylene	0.166	0.00400	"	0.200	ND	83.2	70-130	1.40	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3D1402 - DTPA Sorbitol Preparation

Blank (B3D1402-BLK1)

Prepared: 04/14/2023 Analyzed: 04/17/2023

Boron ND 0.100 mg/L

Duplicate (B3D1402-DUP1)

Source: Y304293-01

Prepared: 04/14/2023 Analyzed: 04/17/2023

Boron 0.455 0.101 mg/L 0.522 13.8 50

Batch B3D1408 - Saturated Paste Metals

Blank (B3D1408-BLK1)

Prepared: 04/14/2023 Analyzed: 04/18/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3D1408-DUP1)

Source: Y304296-05

Prepared: 04/14/2023 Analyzed: 04/18/2023

Calcium PPM 119 10.0 mg/L 174 37.3 50

SAR 0.00 SAR 9.09 200 200

Magnesium PPM 81.5 10.0 mg/L 111 30.9 50

Sodium PPM 544 10.0 " 624 13.7 50

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1414 - Saturated Paste pH/EC										
Blank (B3D1414-BLK1)					Prepared: 04/14/2023 Analyzed: 04/18/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3D1414-DUP1)					Source: Y304296-05 Prepared: 04/14/2023 Analyzed: 04/18/2023					
Specific Conductance (EC)	2.61	0.00500	mmhos/cm		3.15			18.6	25	
pH	7.88		pH Units		7.95			0.884	25	

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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May 31, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - REI H 17-21D Wellhead

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-21D Wellhead received by Origins Laboratory, Inc. May 22, 2023. This project is associated with Origins project number Y305573-01.

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02-B01@3.5'	Y305573-01	Soil	May 22, 2023 14:20	05/22/2023 16:41
SS02-N01@1.5'	Y305573-02	Soil	May 22, 2023 14:25	05/22/2023 16:41
SS02-E01@1.5'	Y305573-03	Soil	May 22, 2023 14:27	05/22/2023 16:41
SS02-S01@1.5'	Y305573-04	Soil	May 22, 2023 14:29	05/22/2023 16:41
SS02-W01@1.5'	Y305573-05	Soil	May 22, 2023 14:31	05/22/2023 16:41

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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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

ORIGINS
LABORATORY, INC

Client: Ensolum

Address: _____

Telephone Number: _____

Email Address: KMG Team

Project Manager: J. Espinoza

Project Name: REI H 17-21D Wellhead

Project Number: 09A1417235

Samples Collected By: HK

Impacted **4305573** page | of | www.originslaboratory.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Turnaround Time	
				Unpreserved	HCl	HNO ₃	Other	Groundwater			Soil
SSO2-B0103.5'	5/22/23	1420	3	X				X		TPH 1,2,4-TMB 1,3,5-TMB RTEX,N 1,2-Methylanthracene Acenaphthene Anthracene Benzobenzanthracene Benzofluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Dibenz(a,i)anthracene Pyrene Boron PAH/SAR Arsenic Barium Cadmium Copper Selenium	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
SSO2-NOG1.5'		1425									
SSO2-EO101.5'		1427									
SSO2-SO101.5'		1429									
SSO2-WO101.5'		1431									
										6	
										7	
										8	
										9	
										10	

Relinquished By: Alma Date: 5/22/23 Time: 1041

Received By: UG Date: 5/22/23 Time: 1041

Temp Received: 3 Date Results Needed

Origins Laboratory, Inc.

Jen Pellegrini

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: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4305573

Client: Ensolum

Client Project ID: REI H17-21D WH

Checklist Completed by: EHSTON

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

Date/time completed: 5/22/23

Airbill #: NA

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

Cooler Number/Temperature: 113 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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) Uea

Date/Time Reviewed 5/22/23

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-B01@3.5'

5/22/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B3E2305	05/23/2023	05/24/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2233	05/22/2023	05/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.6 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2236	05/22/2023	05/23/2023	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

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-B01@3.5'

5/22/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y305573-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			B3E22 36	05/22/2023	05/23/2023
Surrogate: Toluene-d8	98.3 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.865		0.499	meq/L	10	[CALC]	05/23/2023	05/24/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684102	05/25/2023	05/26/2023
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	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-B01@3.5'

5/22/2023 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305573-01 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L684102	05/25/2023	05/26/2023
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Surrogate: 2-Fluorobiphenyl	47.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	53.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	43.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.28			pH Units	1	B3E2313	05/23/2023	05/24/2023
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SAR by 20B Saturated Paste

SAR	0.0519			SAR	1	B3E2309	05/23/2023	05/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.12	0.0987	mg/kg	10	B3E2240	05/22/2023	05/23/2023	
Barium	45.1	9.87	"	"	"	"	"	
Cadmium	ND	0.0987	"	"	"	"	"	U
Copper	ND	9.87	"	"	"	"	"	U
Selenium	ND	0.0987	"	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-N01@1.5'

5/22/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B3E2305	05/23/2023	05/24/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2233	05/22/2023	05/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.6 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2236	05/22/2023	05/23/2023	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

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-N01@1.5'

5/22/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y305573-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3E22 36	05/22/2023	05/23/2023	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.863		0.499	meq/L	10	[CALC]	05/23/2023	05/24/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684102	05/25/2023	05/26/2023	
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	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-N01@1.5'

5/22/2023 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305573-02 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L684102	05/25/2023	05/26/2023
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Surrogate: 2-Fluorobiphenyl	61 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.32	pH Units	1	B3E2313	05/23/2023	05/24/2023
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SAR by 20B Saturated Paste

SAR	0.0356	SAR	1	B3E2309	05/23/2023	05/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.39	0.0951	mg/kg	10	B3E2240	05/22/2023	05/23/2023
Barium	159	9.51	"	"	"	"	"
Cadmium	ND	0.0951	"	"	"	"	" U
Copper	ND	9.51	"	"	"	"	" U
Selenium	0.0960	0.0951	"	"	"	"	"

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-E01@1.5'

5/22/2023 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B3E2305	05/23/2023	05/24/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2233	05/22/2023	05/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	67.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2236	05/22/2023	05/23/2023	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

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-E01@1.5'

5/22/2023 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			B3E22 36	05/22/2023	05/23/2023
Surrogate: Toluene-d8	96.4 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.816		0.499	meq/L	10	[CALC]	05/23/2023	05/24/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	0.478		0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684102	05/25/2023	05/26/2023
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	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-E01@1.5'

5/22/2023 2:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305573-03 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L684102	05/25/2023	05/26/2023
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Surrogate: 2-Fluorobiphenyl	52.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	57.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	47.3 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.35			pH Units	1	B3E2313	05/23/2023	05/24/2023
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SAR by 20B Saturated Paste

SAR	0.647			SAR	1	B3E2309	05/23/2023	05/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.49	0.0867	mg/kg	10	B3E2240	05/22/2023	05/23/2023	
Barium	170	8.67	"	"	"	"	"	
Cadmium	0.125	0.0867	"	"	"	"	"	
Copper	ND	8.67	"	"	"	"	"	U
Selenium	0.0867	0.0867	"	"	"	"	"	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-S01@1.5'

5/22/2023 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B3E2305	05/23/2023	05/24/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2233	05/22/2023	05/23/2023	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	B3E2236	05/22/2023	05/23/2023	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

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-S01@1.5'

5/22/2023 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y305573-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	130 %		70-130			B3E22 36	05/22/2023	05/23/2023	
Surrogate: Toluene-d8	93.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.875		0.499	meq/L	10	[CALC]	05/23/2023	05/24/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684102	05/25/2023	05/26/2023	
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	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-S01@1.5'

5/22/2023 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305573-04 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L684102	05/25/2023	05/26/2023
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Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	68.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	54.7 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.31			pH Units	1	B3E2313	05/23/2023	05/24/2023
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SAR by 20B Saturated Paste

SAR	0.0412			SAR	1	B3E2309	05/23/2023	05/24/2023
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Table 915 metals by EPA 6020B

Arsenic	6.60	0.0970	mg/kg	10	B3E2240	05/22/2023	05/23/2023
Barium	217	9.70	"	"	"	"	"
Cadmium	0.514	0.0970	"	"	"	"	"
Copper	20.0	9.70	"	"	"	"	"
Selenium	0.539	0.0970	"	"	"	"	"

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-W01@1.5'
5/22/2023 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.128	0.0992	mg/L	1	B3E2305	05/23/2023	05/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2233	05/22/2023	05/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2236	05/22/2023	05/23/2023	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

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-W01@1.5'

5/22/2023 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305573-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			B3E22 36	05/22/2023	05/23/2023
Surrogate: Toluene-d8	97.1 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.17		0.499	meq/L	10	[CALC]	05/23/2023	05/24/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L684102	05/25/2023	05/26/2023
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	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

SS02-W01@1.5'

5/22/2023 2:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305573-05 (Soil)

PAH by 8270D SIM

Pyrene	ND	0.000643	0.00067	mg/Kg	1	L684102	05/25/2023	05/26/2023
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Surrogate: 2-Fluorobiphenyl	58.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	63.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	50.6 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.29			pH Units	1	B3E2313	05/23/2023	05/24/2023
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SAR by 20B Saturated Paste

SAR	0.0647			SAR	1	B3E2309	05/23/2023	05/24/2023
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Table 915 metals by EPA 6020B

Arsenic	1.37	0.0892	mg/kg	10	B3E2240	05/22/2023	05/23/2023	
Barium	159	8.92	"	"	"	"	"	
Cadmium	ND	0.0892	"	"	"	"	"	U
Copper	ND	8.92	"	"	"	"	"	U
Selenium	ND	0.0892	"	"	"	"	"	U

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2233 - EPA 3550B										
Blank (B3E2233-BLK1)					Prepared: 05/22/2023 Analyzed: 05/22/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		68.0	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2233 - EPA 3550B

LCS (B3E2233-BS1)

Prepared: 05/22/2023 Analyzed: 05/22/2023

Diesel (C10-C28)	775	50.0	mg/kg	1000		77.5	70-130			
Residual Range Organics (C28-C40)	827	200	"	1000		82.7	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.4	50-150			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2233 - EPA 3550B

Matrix Spike (B3E2233-MS1)		Source: Y305552-01			Prepared: 05/22/2023 Analyzed: 05/22/2023					
Diesel (C10-C28)	793	50.0	mg/kg	1000	ND	79.3	70-130			
Residual Range Organics (C28-C40)	840	200	"	1000	ND	84.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2233 - EPA 3550B

Matrix Spike Dup (B3E2233-MSD1)		Source: Y305552-01			Prepared: 05/22/2023 Analyzed: 05/22/2023					
Diesel (C10-C28)	792	50.0	mg/kg	1000	ND	79.2	70-130	0.142	35	
Residual Range Organics (C28-C40)	835	200	"	1000	ND	83.5	70-130	0.638	35	
Surrogate: o-Terphenyl	39		"	49.8		79.0	50-150			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2236 - EPA 5030 (soil)										
Blank (B3E2236-BLK1)					Prepared: 05/22/2023 Analyzed: 05/23/2023					
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	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2236 - EPA 5030 (soil)

LCS (B3E2236-BS1)

Prepared: 05/22/2023 Analyzed: 05/23/2023

1,2,4-Trimethylbenzene	0.0864	0.00200	mg/kg	0.100		86.4	70-130			
1,3,5-Trimethylbenzene	0.0851	0.00200	"	0.100		85.1	70-130			
Benzene	0.0847	0.00200	"	0.100		84.7	70-130			
Ethylbenzene	0.0813	0.00200	"	0.100		81.3	70-130			
Naphthalene	0.0982	0.00380	"	0.100		98.2	70-130			
Toluene	0.0814	0.00200	"	0.100		81.4	70-130			
o-Xylene	0.0820	0.00200	"	0.100		82.0	70-130			
m,p-Xylene	0.168	0.00400	"	0.200		84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2236 - EPA 5030 (soil)										
Matrix Spike (B3E2236-MS1)		Source: Y305552-01			Prepared: 05/22/2023 Analyzed: 05/23/2023					
1,2,4-Trimethylbenzene	0.0683	0.00200	mg/kg	0.100	ND	68.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0664	0.00200	"	0.100	ND	66.4	70-130			QM-07
Benzene	0.0739	0.00200	"	0.100	ND	73.9	70-130			QR-02
Ethylbenzene	0.0631	0.00200	"	0.100	ND	63.1	70-130			QM-07
Naphthalene	0.0923	0.00380	"	0.100	ND	92.3	70-130			QR-02
Toluene	0.0675	0.00200	"	0.100	ND	67.5	70-130			QM-07
o-Xylene	0.0582	0.00200	"	0.100	ND	58.2	70-130			QM-07
m,p-Xylene	0.126	0.00400	"	0.200	ND	62.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2236 - EPA 5030 (soil)

Matrix Spike Dup (B3E2236-MSD1)		Source: Y305552-01			Prepared: 05/22/2023 Analyzed: 05/23/2023					
1,2,4-Trimethylbenzene	0.0525	0.00200	mg/kg	0.100	ND	52.5	70-130	26.1	20	QM-07
1,3,5-Trimethylbenzene	0.0517	0.00200	"	0.100	ND	51.7	70-130	24.8	20	QM-07
Benzene	0.0587	0.00200	"	0.100	ND	58.7	70-130	22.8	20	QM-07
Ethylbenzene	0.0498	0.00200	"	0.100	ND	49.8	70-130	23.6	20	QM-07
Naphthalene	0.0725	0.00380	"	0.100	ND	72.5	70-130	23.9	20	QR-02
Toluene	0.0531	0.00200	"	0.100	ND	53.1	70-130	23.8	20	QM-07
o-Xylene	0.0463	0.00200	"	0.100	ND	46.3	70-130	22.7	20	QM-07
m,p-Xylene	0.0996	0.00400	"	0.200	ND	49.8	70-130	23.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

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Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2240 - EPA 3050B

Blank (B3E2240-BLK1)

Prepared: 05/22/2023 Analyzed: 05/23/2023

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 (B3E2240-BS1)

Prepared: 05/22/2023 Analyzed: 05/23/2023

Arsenic	0.0571	0.000100	mg/kg	0.0500		114	80-120
Barium	5.72	0.0100	"	5.00		114	80-120
Cadmium	0.0559	0.000100	"	0.0500		112	80-120
Copper	0.565	0.0100	"	0.500		113	80-120
Lead	0.0562	0.0100	"	0.0500		112	80-120
Nickel	0.0556	0.0100	"	0.0500		111	80-120
Selenium	0.0497	0.000100	"	0.0500		99.4	80-120
Silver	0.0566	0.000100	"	0.0500		113	80-120
Zinc	0.550	0.100	"	0.500		110	80-120

Matrix Spike (B3E2240-MS1)

Source: Y305552-01

Prepared: 05/22/2023 Analyzed: 05/23/2023

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2240 - EPA 3050B

Matrix Spike (B3E2240-MS1)		Source: Y305552-01			Prepared: 05/22/2023 Analyzed: 05/23/2023					
Arsenic	8.27	0.0932	mg/kg	4.66	3.35	106	75-125			
Barium	589	9.32	"	466	49.1	116	75-125			
Cadmium	5.24	0.0932	"	4.66	0.238	107	75-125			
Copper	58.4	9.32	"	46.6	9.06	106	75-125			
Lead	18.6	9.32	"	4.66	14.2	93.5	75-125			
Nickel	17.4	9.32	"	4.66	11.0	137	75-125			QM-07
Selenium	4.36	0.0932	"	4.66	0.184	89.6	75-125			
Silver	5.05	0.0932	"	4.66	0.0323	108	75-125			
Zinc	126	93.2	"	46.6	61.3	138	75-125			QM-07
Matrix Spike Dup (B3E2240-MSD1)		Source: Y305552-01			Prepared: 05/22/2023 Analyzed: 05/23/2023					
Arsenic	9.29	0.0967	mg/kg	4.83	3.35	123	75-125	11.6	20	
Barium	605	9.67	"	483	49.1	115	75-125	2.68	20	
Cadmium	5.49	0.0967	"	4.83	0.238	109	75-125	4.63	20	
Copper	58.9	9.67	"	48.3	9.06	103	75-125	0.885	20	
Lead	25.1	9.67	"	4.83	14.2	225	75-125	29.9	20	QM-07, QR-DUP
Nickel	18.5	9.67	"	4.83	11.0	155	75-125	6.04	20	QM-07
Selenium	4.35	0.0967	"	4.83	0.184	86.2	75-125	0.249	20	
Silver	5.37	0.0967	"	4.83	0.0323	111	75-125	6.16	20	
Zinc	119	96.7	"	48.3	61.3	119	75-125	5.51	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2305 - DTPA Sorbitol Preparation

Blank (B3E2305-BLK1)

Prepared: 05/23/2023 Analyzed: 05/24/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3E2305-DUP1)

Source: Y305572-07

Prepared: 05/23/2023 Analyzed: 05/24/2023

Boron	0.0301	0.0989	mg/L		0.0277			8.34	50	U
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Batch B3E2309 - Saturated Paste Metals

Blank (B3E2309-BLK1)

Prepared: 05/23/2023 Analyzed: 05/24/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B3E2309-DUP1)

Source: Y305573-01

Prepared: 05/23/2023 Analyzed: 05/24/2023

SAR	0.00		SAR	0.0519				200	200	U
Calcium PPM	16.7	10.0	mg/L	17.3				3.76	50	
Magnesium PPM	4.50	10.0	"	4.59				1.98	50	U
Sodium PPM	0.880	10.0	"	0.940				6.59	50	U

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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3E2313 - Saturated Paste pH/EC

Duplicate (B3E2313-DUP1)

Source: Y305573-01

Prepared: 05/23/2023 Analyzed: 05/24/2023

pH	8.29		pH Units	8.28		0.121	25
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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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 L684102 - 3550B

MSD (L 97380-MSD-L684102)		Source: 97380			Prepared: 05/25/2023 Analyzed: 05/26/2023					
Dibenz(a,h)anthracene	0.0912	0.00067	mg/Kg	0.162	<0.000614	56.2	30-130	3.7	30	
Pyrene	0.0948	0.00067	"	0.162	<0.000643	58.5	30-130	13	30	
Indeno(1,2,3-cd)pyrene	0.0709	0.00067	"	0.162	<0.000627	43.7	30-130	5.6	30	
Fluorene	0.0732	0.00067	"	0.162	<0.000286	45.1	30-130	16.8	30	
Chrysene	0.0964	0.00067	"	0.162	<0.000624	59.5	30-130	15.8	30	
Benzo(a)pyrene	0.0893	0.00067	"	0.162	<0.000468	55.1	30-130	15.2	30	
Benzo(a)anthracene	0.0788	0.00067	"	0.162	<0.000493	48.6	30-130	14.3	30	
Anthracene	0.089	0.00067	"	0.162	<0.000334	54.9	30-130	14.5	30	
Acenaphthene	0.0787	0.00067	"	0.162	<0.000304	48.5	30-130	17.2	30	
2-Methylnaphthalene	0.0661	0.00201	"	0.162	<0.00194	40.8	30-130	18.4	30	
1-Methylnaphthalene	0.081	0.00201	"	0.162	<0.00109	50	30-130	17.4	30	
Surrogate: Nitrobenzene-d5	40		"	0.325	138	40	29-110			
Surrogate: 4-Terphenyl-d14	60.3		"	0.325	204	60.3	33-122			
Surrogate: 2-Fluorobiphenyl	44.3		"	0.325	156	44.3	33-115			

MS (L 97380-MS-L684102)		Source: 97380			Prepared: 05/25/2023 Analyzed: 05/26/2023					
Dibenz(a,h)anthracene	0.0878	0.00067	mg/Kg	0.166	<0.000614	52.8	30-130			
Pyrene	0.108	0.00067	"	0.166	<0.000643	65	30-130			
Indeno(1,2,3-cd)pyrene	0.067	0.00067	"	0.166	<0.000627	40.3	30-130			
Fluorene	0.0867	0.00067	"	0.166	<0.000286	52.2	30-130			
Benzo(a)pyrene	0.104	0.00067	"	0.166	<0.000468	62.6	30-130			
Benzo(a)anthracene	0.091	0.00067	"	0.166	<0.000493	54.8	30-130			
Acenaphthene	0.0936	0.00067	"	0.166	<0.000304	56.3	30-130			
2-Methylnaphthalene	0.0795	0.00201	"	0.166	<0.00194	47.8	30-130			
1-Methylnaphthalene	0.0965	0.00201	"	0.166	<0.00109	58.1	30-130			
Anthracene	0.103	0.00067	"	0.166	<0.000334	62	30-130			
Chrysene	0.113	0.00067	"	0.166	<0.000624	68	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 L684102 - 3550B

MS (L 97380-MS-L684102)	Source: 97380				Prepared: 05/25/2023 Analyzed: 05/26/2023					
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Surrogate: Nitrobenzene-d5	48.3		mg/Kg	0.331	138	48.3	29-110
Surrogate: 4-Terphenyl-d14	69.4		"	0.331	204	69.4	33-122
Surrogate: 2-Fluorobiphenyl	53.7		"	0.331	156	53.7	33-115

LCS (LCS-L684102)

Prepared: 05/25/2023 Analyzed: 05/26/2023

Pyrene	0.126	0.00067	mg/Kg	0.167		75.4	30-130
Indeno(1,2,3-cd)pyrene	0.0863	0.00067	"	0.167		51.6	30-130
Fluorene	0.0922	0.00067	"	0.167		55.2	30-130
Dibenz(a,h)anthracene	0.122	0.00067	"	0.167		73	30-130
Benzo(a)pyrene	0.121	0.00067	"	0.167		72.4	30-130
Benzo(a)anthracene	0.106	0.00067	"	0.167		63.4	30-130
Anthracene	0.117	0.00067	"	0.167		70	30-130
Acenaphthene	0.1	0.00067	"	0.167		59.8	30-130
2-Methylnaphthalene	0.0879	0.00201	"	0.167		52.6	30-130
1-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130
Chrysene	0.129	0.00067	"	0.167		77.2	30-130

Surrogate: Nitrobenzene-d5	51		"	0.333	51	29-110
Surrogate: 4-Terphenyl-d14	84.9		"	0.333	84.9	33-122
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333	62.1	33-115

LRB (LRB-L684102)

Prepared: 05/25/2023 Analyzed: 05/26/2023

Acenaphthene	ND	0.00067	mg/Kg			-
Pyrene	ND	0.00067	"			-
Indeno(1,2,3-cd)pyrene	ND	0.00067	"			-
Fluorene	ND	0.00067	"			-
Dibenz(a,h)anthracene	ND	0.00067	"			-
Chrysene	ND	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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
Batch L684102 - 3550B										
LRB (LRB-L684102)				Prepared: 05/25/2023 Analyzed: 05/26/2023						
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 4-Terphenyl-d14	78.9		"	0.333		78.9	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	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: 09A1417235
Project: KMG - REI H 17-21D Wellhead

Notes and Definitions

U Sample is Non-Detect.

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

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.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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June 28, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - REI H 17-21D Wellhead

Project Number - 09A1417235

Attached are your analytical results for KMG - REI H 17-21D Wellhead received by Origins Laboratory, Inc. June 22, 2023. This project is associated with Origins project number Y306587-01.

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

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

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

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

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

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



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@1.5'	Y306587-01	Soil	June 22, 2023 13:30	06/22/2023 14:50
E02@1.5'	Y306587-02	Soil	June 22, 2023 13:33	06/22/2023 14:50
S02@1.5'	Y306587-03	Soil	June 22, 2023 13:36	06/22/2023 14:50
S03@1.5'	Y306587-04	Soil	June 22, 2023 13:40	06/22/2023 14:50
W02@1.5'	Y306587-05	Soil	June 22, 2023 13:43	06/22/2023 14:50
W03@1.5'	Y306587-06	Soil	June 22, 2023 13:46	06/22/2023 14:50
B02@2'	Y306587-07	Soil	June 22, 2023 13:50	06/22/2023 14:50

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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

ORIGINS
LABORATORY, INC

IMPACTED

www.originslaboratory.com

4306587

page 1 of 1

Client: Ensolum
Address: _____
Telephone Number: _____
Email Address: KM GTeam
Project Manager: J Espinoza
Project Name: REI H 17-21D Wellhead
Project Number: 09A1417235
Samples Collected By: HK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis												Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX	THMs	TPH	PAHs	Baron	Asbestos	Barium	Cadmium	Copper		Selenium	
NO201.5'	6/22/23	1330	3	X					X						X	X	X	X	X	X	X	X	
EO201.5'		1333																					
SO201.5'		1336																					
SO301.5'		1340																					
WO201.5'		1343																					
WO301.5'		1346																					
BO202'		1350																					

Temp Received- 3

Date Results Needed

Relinquished By: *[Signature]*
Date: 6/22/23
Time: 1450
Received By: *[Signature]*
Date: 6/22/23
Time: 145
Turnaround Time:
Same Day ☒
48 Hr ☐
72 Hr ☐
Standard ☐

Origins Laboratory, Inc.

[Signature]

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4306587

Client: Ensolum

Client Project ID: REI H 17-21D WH

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 6/22/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 113 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Jeremy Espinoza
Reviewed by (Project Manager)

6/22/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

N02@1.5'
6/22/2023 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.207	0.0999	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	67.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.7 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

N02@1.5'
6/22/2023 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.95	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023	
Magnesium	1.49	0.823	"	"	"	KAP	"	"	
Sodium	2.12	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

N02@1.5'

6/22/2023 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306587-01 (Soil)

PAH by EPA 8270E

Surrogate: Nitrobenzene-d5	86.1 %	60-130			B3F2306		06/23/2023	06/23/2023	
Surrogate: 2-Fluorobiphenyl	107 %	60-130			"		"	"	
Surrogate: Terphenyl-d14	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.02		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	1.29		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.17	0.0924	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	140	9.24	"	"	"	CNG	"	"	
Cadmium	0.137	0.0924	"	"	"	CNG	"	"	
Copper	ND	9.24	"	"	"	CNG	"	"	
Selenium	0.362	0.0924	"	"	"	CNG	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

E02@1.5'
6/22/2023 1:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.162	0.101	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	64.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	84.5 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

E02@1.5'
6/22/2023 1:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.17	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	1.19	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

E02@1.5'

6/22/2023 1:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-02 (Soil)

PAH by EPA 8270E

Surrogate: Nitrobenzene-d5	86.6 %	60-130			B3F2306		06/23/2023	06/23/2023	
Surrogate: 2-Fluorobiphenyl	105 %	60-130			"		"	"	
Surrogate: Terphenyl-d14	99.2 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.15		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	0.980		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.61	0.0901	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	94.6	9.01	"	"	"	CNG	"	"	
Cadmium	ND	0.0901	"	"	"	CNG	"	"	
Copper	ND	9.01	"	"	"	CNG	"	"	
Selenium	ND	0.180	"	20	"	CNG	"	06/27/2023	

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

S02@1.5'
6/22/2023 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	69.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

S02@1.5'

6/22/2023 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.83	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

S02@1.5'
6/22/2023 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-03 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
Surrogate: Nitrobenzene-d5	85.1 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	102 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	105 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	8.15		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	0.188		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.29	0.0974	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	42.5	9.74	"	"	"	CNG	"	"	
Cadmium	ND	0.0974	"	"	"	CNG	"	"	
Copper	ND	9.74	"	"	"	CNG	"	"	
Selenium	ND	0.0974	"	"	"	CNG	"	"	

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

S03@1.5'
6/22/2023 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	67.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

S03@1.5'

6/22/2023 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.13	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	0.498	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	0.007	0.005	"	"	"	agile	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

S03@1.5'

6/22/2023 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306587-04 (Soil)

PAH by EPA 8270E

Surrogate: Nitrobenzene-d5	84.6 %	60-130			B3F2306		06/23/2023	06/23/2023	
Surrogate: 2-Fluorobiphenyl	103 %	60-130			"		"	"	
Surrogate: Terphenyl-d14	103 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.04		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	0.547		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.08	0.0892	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	46.6	8.92	"	"	"	CNG	"	"	
Cadmium	ND	0.0892	"	"	"	CNG	"	"	
Copper	ND	8.92	"	"	"	CNG	"	"	
Selenium	ND	0.0892	"	"	"	CNG	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

W02@1.5'

6/22/2023 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.465	0.0996	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	65.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.2 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

W02@1.5'

6/22/2023 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	6.22	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023	
Magnesium	2.97	0.823	"	"	"	KAP	"	"	
Sodium	5.41	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

W02@1.5'

6/22/2023 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-05 (Soil)

PAH by EPA 8270E

Surrogate: Nitrobenzene-d5	85.6 %	60-130			B3F2306		06/23/2023	06/23/2023	
Surrogate: 2-Fluorobiphenyl	106 %	60-130			"		"	"	
Surrogate: Terphenyl-d14	96.7 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.05		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	2.52		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.13	0.0864	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	80.8	8.64	"	"	"	CNG	"	"	
Cadmium	0.201	0.0864	"	"	"	CNG	"	"	
Copper	11.2	8.64	"	"	"	CNG	"	"	
Selenium	0.113	0.0864	"	"	"	CNG	"	"	

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

W03@1.5'

6/22/2023 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	67.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

W03@1.5'

6/22/2023 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.68	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	ND	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

W03@1.5'

6/22/2023 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-06 (Soil)

PAH by EPA 8270E

Pyrene	ND	0.020	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
Surrogate: Nitrobenzene-d5	80.3 %	60-130			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	103 %	60-130			"	"	"	"	
Surrogate: Terphenyl-d14	97.3 %	60-130			"	"	"	"	

pH in Soil by 9045D

pH	8.05		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	0.186		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.31	0.0932	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	71.0	9.32	"	"	"	CNG	"	"	
Cadmium	ND	0.0932	"	"	"	CNG	"	"	
Copper	ND	9.32	"	"	"	CNG	"	"	
Selenium	ND	0.0932	"	"	"	CNG	"	"	

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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

B02@2'

6/22/2023 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.271	0.101	mg/L	1	B3F2308	KAP	06/23/2023	06/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2223	BWM	06/22/2023	06/23/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	BWM	"	"	U

Surrogate: o-Terphenyl	68.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2225	JSM	06/22/2023	06/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.9 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

B02@2'

6/22/2023 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.55	0.499	meq/L	10	[CALC]	KAP	06/23/2023	06/26/2023
Magnesium	1.08	0.823	"	"	"	KAP	"	"
Sodium	1.94	0.435	"	"	"	KAP	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3F2306	agile	06/23/2023	06/23/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

B02@2'

6/22/2023 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306587-07 (Soil)

PAH by EPA 8270E

Surrogate: Nitrobenzene-d5	80.0 %	60-130			B3F2306		06/23/2023	06/23/2023	
Surrogate: 2-Fluorobiphenyl	104 %	60-130			"		"	"	
Surrogate: Terphenyl-d14	96.8 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.07		pH Units	1	B3F2316	ACN	06/23/2023	06/24/2023	
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SAR by 20B Saturated Paste

SAR	1.44		SAR	1	B3F2311	KAP	06/23/2023	06/26/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.98	0.0923	mg/kg	10	B3F2304	CNG	06/23/2023	06/27/2023	
Barium	107	9.23	"	"	"	CNG	"	"	
Cadmium	0.124	0.0923	"	"	"	CNG	"	"	
Copper	ND	9.23	"	"	"	CNG	"	"	
Selenium	0.118	0.0923	"	"	"	CNG	"	"	

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3F2223 - EPA 3550B										
Blank (B3F2223-BLK1)					Prepared: 06/22/2023 Analyzed: 06/22/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	16		"	24.9		62.6	50-150			

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3F2223 - EPA 3550B

LCS (B3F2223-BS1)

Prepared: 06/22/2023 Analyzed: 06/22/2023

Diesel (C10-C28)	776	50.0	mg/kg	1000		77.6	70-130			
Residual Range Organics (C28-C40)	750	200	"	1000		75.0	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.1	50-150			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3F2223 - EPA 3550B

Matrix Spike (B3F2223-MS1)		Source: Y306587-01			Prepared: 06/22/2023 Analyzed: 06/22/2023					
Diesel (C10-C28)	846	50.0	mg/kg	1000	ND	84.6	70-130			
Residual Range Organics (C28-C40)	900	200	"	1000	ND	90.0	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.3	50-150			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3F2223 - EPA 3550B

Matrix Spike Dup (B3F2223-MSD1)		Source: Y306587-01			Prepared: 06/22/2023 Analyzed: 06/22/2023					
Diesel (C10-C28)	838	50.0	mg/kg	1000	ND	83.8	70-130	0.948	35	
Residual Range Organics (C28-C40)	910	200	"	1000	ND	91.0	70-130	1.15	35	
Surrogate: o-Terphenyl	43		"	49.8		85.8	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2225 - EPA 5030 (soil)										
Blank (B3F2225-BLK1)					Prepared: 06/22/2023 Analyzed: 06/22/2023					
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	0.11		"	0.125		85.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		82.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2225 - EPA 5030 (soil)										
LCS (B3F2225-BS1)					Prepared: 06/22/2023 Analyzed: 06/22/2023					
1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100		91.9	70-130			
1,3,5-Trimethylbenzene	0.0926	0.00200	"	0.100		92.6	70-130			
Benzene	0.0990	0.00200	"	0.100		99.0	70-130			
Ethylbenzene	0.0885	0.00200	"	0.100		88.5	70-130			
Naphthalene	0.0858	0.00380	"	0.100		85.8	70-130			
Toluene	0.0887	0.00200	"	0.100		88.7	70-130			
o-Xylene	0.0881	0.00200	"	0.100		88.1	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.8	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2225 - EPA 5030 (soil)										
Matrix Spike (B3F2225-MS1)		Source: Y306587-01			Prepared: 06/22/2023 Analyzed: 06/22/2023					
1,2,4-Trimethylbenzene	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130			
1,3,5-Trimethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Benzene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
Ethylbenzene	0.0830	0.00200	"	0.100	ND	83.0	70-130			
Naphthalene	0.0693	0.00380	"	0.100	ND	69.3	70-130			QM-07
Toluene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.1	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2225 - EPA 5030 (soil)										
Matrix Spike Dup (B3F2225-MSD1)		Source: Y306587-01			Prepared: 06/22/2023 Analyzed: 06/22/2023					
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130	6.65	20	
1,3,5-Trimethylbenzene	0.0915	0.00200	"	0.100	ND	91.5	70-130	6.85	20	
Benzene	0.0932	0.00200	"	0.100	ND	93.2	70-130	7.13	20	
Ethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	5.62	20	
Naphthalene	0.0745	0.00380	"	0.100	ND	74.5	70-130	7.21	20	
Toluene	0.0865	0.00200	"	0.100	ND	86.5	70-130	7.01	20	
o-Xylene	0.0883	0.00200	"	0.100	ND	88.3	70-130	6.50	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.6	70-130	5.45	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2304 - EPA 3050B

Blank (B3F2304-BLK1)

Prepared: 06/23/2023 Analyzed: 06/27/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Selenium	ND	0.000100	"

LCS (B3F2304-BS1)

Prepared: 06/23/2023 Analyzed: 06/27/2023

Arsenic	0.0579	0.000100	mg/kg	0.0500	116	80-120
Barium	5.54	0.0100	"	5.00	111	80-120
Cadmium	0.0594	0.000100	"	0.0500	119	80-120
Copper	0.589	0.0100	"	0.500	118	80-120
Selenium	0.0560	0.000100	"	0.0500	112	80-120

Matrix Spike (B3F2304-MS1)

Source: Y306587-01

Prepared: 06/23/2023 Analyzed: 06/27/2023

Arsenic	6.95	0.0949	mg/kg	4.74	2.17	101	75-125
Barium	627	9.49	"	474	140	103	75-125
Cadmium	5.69	0.0949	"	4.74	0.137	117	75-125
Copper	60.3	9.49	"	47.4	6.62	113	75-125
Selenium	5.47	0.0949	"	4.74	0.362	108	75-125

Matrix Spike Dup (B3F2304-MSD1)

Source: Y306587-01

Prepared: 06/23/2023 Analyzed: 06/27/2023

Arsenic	7.27	0.0948	mg/kg	4.74	2.17	108	75-125	4.53	20
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2304 - EPA 3050B

Matrix Spike Dup (B3F2304-MSD1)		Source: Y306587-01			Prepared: 06/23/2023 Analyzed: 06/27/2023					
Barium	702	9.48	mg/kg	474	140	119	75-125	11.3	20	
Cadmium	5.62	0.0948	"	4.74	0.137	116	75-125	1.22	20	
Copper	60.0	9.48	"	47.4	6.62	113	75-125	0.502	20	
Selenium	5.79	0.0948	"	4.74	0.362	114	75-125	5.67	20	

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Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2306 - EPA 3580

Blank (B3F2306-BLK1)

Prepared: 06/23/2023 Analyzed: 06/23/2023

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: Nitrobenzene-d5	180		ug/kg	200		92.1	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		100	60-130			
Surrogate: Terphenyl-d14	210		"	200		103	60-130			

LCS (B3F2306-BS1)

Prepared: 06/23/2023 Analyzed: 06/23/2023

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200		104	70-130
2-Methylnaphthalene	0.218	0.002	"	0.200		109	70-130
Acenaphthene	0.202	0.020	"	0.200		101	70-130
Anthracene	0.207	0.020	"	0.200		104	70-130
Benzo (a) anthracene	0.211	0.005	"	0.200		106	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 B3F2306 - EPA 3580

LCS (B3F2306-BS1)

Prepared: 06/23/2023 Analyzed: 06/23/2023

Benzo (a) pyrene	0.204	0.020	mg/kg	0.200		102	70-130
Benzo (b) fluoranthene	0.198	0.020	"	0.200		99.2	70-130
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		95.8	70-130
Benzo (k) fluoranthene	0.221	0.020	"	0.200		110	70-130
Chrysene	0.198	0.020	"	0.200		99.0	70-130
Dibenz (a,h) anthracene	0.188	0.020	"	0.200		94.1	70-130
Fluoranthene	0.234	0.020	"	0.200		117	70-130
Fluorene	0.210	0.020	"	0.200		105	70-130
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200		100	70-130
Naphthalene	0.203	0.002	"	0.200		102	70-130
Phenanthrene	0.216	0.020	"	0.200		108	70-130
Pyrene	0.193	0.020	"	0.200		96.4	70-130
Surrogate: Nitrobenzene-d5	170		ug/kg	200		87.0	60-130
Surrogate: 2-Fluorobiphenyl	210		"	200		103	60-130
Surrogate: Terphenyl-dl4	190		"	200		95.4	60-130

Matrix Spike (B3F2306-MS1)

Source: Y306584-01

Prepared: 06/23/2023 Analyzed: 06/23/2023

1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130
2-Methylnaphthalene	0.215	0.002	"	0.200	ND	107	70-130
Acenaphthene	0.215	0.020	"	0.200	0.003	106	70-130
Anthracene	0.202	0.020	"	0.200	ND	101	70-130
Benzo (a) anthracene	0.205	0.005	"	0.200	0.006	99.7	70-130
Benzo (a) pyrene	0.199	0.020	"	0.200	ND	99.6	70-130
Benzo (b) fluoranthene	0.206	0.020	"	0.200	0.006	99.8	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	ND	101	70-130
Benzo (k) fluoranthene	0.224	0.020	"	0.200	ND	112	70-130
Chrysene	0.193	0.020	"	0.200	0.007	92.9	70-130

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Project Number: 09A1417235
Project: KMG - REI H 17-21D Wellhead

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 B3F2306 - EPA 3580

Matrix Spike (B3F2306-MS1)		Source: Y306584-01			Prepared: 06/23/2023 Analyzed: 06/23/2023					
Dibenz (a,h) anthracene	0.200	0.020	mg/kg	0.200	ND	99.9	70-130			
Fluoranthene	0.242	0.020	"	0.200	0.019	112	70-130			
Fluorene	0.208	0.020	"	0.200	0.002	103	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.005	100	70-130			
Naphthalene	0.202	0.002	"	0.200	0.002	100	70-130			
Phenanthrene	0.217	0.020	"	0.200	0.017	99.8	70-130			
Pyrene	0.197	0.020	"	0.200	0.013	91.9	70-130			
Surrogate: Nitrobenzene-d5	180		ug/kg	200		88.2	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		105	60-130			
Surrogate: Terphenyl-dl4	190		"	200		96.5	60-130			

Matrix Spike Dup (B3F2306-MSD1)		Source: Y306584-01			Prepared: 06/23/2023 Analyzed: 06/23/2023					
1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	ND	102	70-130	1.41	20	
2-Methylnaphthalene	0.215	0.002	"	0.200	ND	107	70-130	0.0693	20	
Acenaphthene	0.213	0.020	"	0.200	0.003	105	70-130	1.02	20	
Anthracene	0.200	0.020	"	0.200	ND	99.9	70-130	1.33	20	
Benzo (a) anthracene	0.235	0.005	"	0.200	0.006	115	70-130	13.4	20	
Benzo (a) pyrene	0.203	0.020	"	0.200	ND	101	70-130	1.68	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.006	97.2	70-130	2.62	20	
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130	0.812	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	4.77	20	
Chrysene	0.220	0.020	"	0.200	0.007	106	70-130	13.1	20	
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	ND	91.3	70-130	9.02	20	
Fluoranthene	0.262	0.020	"	0.200	0.019	122	70-130	8.01	20	
Fluorene	0.217	0.020	"	0.200	0.002	107	70-130	3.99	20	
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	0.005	92.9	70-130	7.47	20	
Naphthalene	0.201	0.002	"	0.200	0.002	99.8	70-130	0.308	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 B3F2306 - EPA 3580

Matrix Spike Dup (B3F2306-MSD1)		Source: Y306584-01			Prepared: 06/23/2023 Analyzed: 06/23/2023					
Phenanthrene	0.243	0.020	mg/kg	0.200	0.017	113	70-130	11.3	20	
Pyrene	0.222	0.020	"	0.200	0.013	105	70-130	12.2	20	
Surrogate: Nitrobenzene-d5	170		ug/kg	200		85.6	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		103	60-130			
Surrogate: Terphenyl-dl4	190		"	200		95.5	60-130			

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Project: KMG - REI H 17-21D Wellhead

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 B3F2308 - DTPA Sorbitol Preparation

Blank (B3F2308-BLK1)

Prepared: 06/23/2023 Analyzed: 06/26/2023

Boron ND 0.100 mg/L

Duplicate (B3F2308-DUP1)

Source: Y306519-05

Prepared: 06/23/2023 Analyzed: 06/26/2023

Boron 0.631 0.100 mg/L 0.616 2.34 50

Batch B3F2311 - Saturated Paste Metals

Blank (B3F2311-BLK1)

Prepared: 06/23/2023 Analyzed: 06/26/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3F2311-DUP1)

Source: Y306583-01

Prepared: 06/23/2023 Analyzed: 06/26/2023

Calcium PPM 52.5 10.0 mg/L 60.3 13.7 50

SAR 0.00 SAR 0.448 200 200

Magnesium PPM 21.6 10.0 mg/L 25.6 17.2 50

Sodium PPM 14.7 10.0 " 16.5 11.2 50

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Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 B3F2316 - Saturated Paste pH/EC

Duplicate (B3F2316-DUP1)		Source: Y306583-01			Prepared: 06/23/2023 Analyzed: 06/24/2023					
pH	7.92		pH Units		7.95			0.378	25	

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Jeremy Espinoza

Project Number: 09A1417235

Project: KMG - REI H 17-21D Wellhead

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 at a wet weight basis.

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