

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
VOGL 3&4&5-5, MCHALE M O SA FACILITY
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)
ABOVEGROUND STORAGE TANK SAMPLES								
AST01@0.5'	10/24/2023	0.5	0.0	NS	NO	40.17395058	-104.9221903	Y
FOOTPRINT	10/24/2023	0.5	0.0	NS	NO	40.17397103	-104.9221704	N
DUMPLINE	10/24/2023	0.5	0.0	NS	NO	40.17398417	-104.9221545	N
AST02@0.5'	10/24/2023	0.5	0.0	NS	NO	40.17399497	-104.9220641	Y
FOOTPRINT	10/24/2023	0.5	0.0	NS	NO	40.17397602	-104.9220758	N
DUMPLINE	10/24/2023	0.5	0.0	NS	NO	40.1739678	-104.9220975	N
AST03@0.5'	10/24/2023	0.5	0.0	NS	NO	40.17401957	-104.9221151	Y
FOOTPRINT	10/24/2023	0.5	0.0	NS	NO	40.17400888	-104.9221349	N
DUMPLINE	10/24/2023	0.5	0.0	NS	NO	40.1739938	-104.9221413	N
PRODUCED WATER VESSEL SAMPLES								
PWV-B01@2'	10/24/2023	2	0.0	NS	NO	40.17401026	-104.9222232	Y
PWV-E01@2'	10/24/2023	2	0.1	NS	NO	40.17401094	-104.9221919	Y
N WALL	10/24/2023	2	0.0	NS	NO	40.17403534	-104.9222207	N
S WALL	10/24/2023	2	0.0	NS	NO	40.17398616	-104.92222	N
W WALL	10/24/2023	2	0.0	NS	NO	40.17400998	-104.9222564	N
PWV-B02@3'	10/25/2023	3	0.3	NS	NO	40.1740178	-104.9221978	Y
SEPARATOR SAMPLES								
SEP01-INLET@3'	10/24/2023	3	1.2	NS	NO	40.17416846	-104.922569	Y
SEP01-OUTLET@3'	10/24/2023	3	294.5	NS	Stain	40.174178	-104.923431	Y
SEP02-INLET@3'	10/25/2023	3	0.3	NS	NO	40.17416421	-104.9224789	Y
SEP02-OUTLET@3'	10/25/2023	3	0.6	NS	NO	40.1741553	-104.9224368	Y
SEP03-INLET@3'	10/25/2023	3	0.2	NS	NO	40.17423214	-104.9224554	Y
SEP03-OUTLET@3'	10/25/2023	3	0.3	NS	NO	40.17419512	-104.9224237	Y
B01@5'	2/14/2024	5	1.0	NS	NO	40.174152	-104.922556	Y
N01@3'	2/14/2024	3	0.0	NS	NO	40.174174	-104.922547	Y
E01@3'	2/14/2024	3	0.7	NS	NO	40.174148	-104.92251	Y
S01@3'	2/14/2024	3	0.7	NS	NO	40.174128	-104.922559	Y
W01@3'	2/14/2024	3	0.2	NS	NO	40.174166	-104.922622	Y
MISCELLANEOUS SAMPLES								
ECD	10/24/2023	0.5	0.0	NS	NO	40.17408447	-104.9225893	N
MH01	10/24/2023	0.5	0.0	NS	NO	40.17424093	-104.9223689	N
BACKGROUND SOIL SAMPLES								
TB-BG01@0.5'	10/25/2023	0.5	0.0	NS	NO	40.17390973	-104.9221218	Y
Native-BG01@3' (Rem No. 28996)	10/23/2023	3	0.0	NS	NO	40.16892691	-104.9217009	Y
Native-BG01@6' (Rem No. 28996)	10/23/2023	6	0.0	NS	NO	40.16892691	-104.9217009	Y

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VOGL 3&4&5-5, MCHALE M O SA FACILITY
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)
Native-BG02@3' (Rem No. 28996)	10/23/2023	3	0.0	NS	NO	40.16881135	-104.9216323	Y
Native-BG02@6' (Rem No. 28996)	10/23/2023	6	0.0	NS	NO	40.16881135	-104.9216323	Y
Native-BG03@3' (Rem No. 28996)	10/23/2023	3	0.0	NS	NO	40.16879246	-104.9218766	Y
Native-BG03@6' (Rem No. 28996)	10/23/2023	6	0.0	NS	NO	40.16879246	-104.9218766	Y
NATIVE-BG03@3'	2/14/2024	3	0.0	NS	NO	40.173722	-104.921987	Y
NATIVE-BG03@6'	2/14/2024	6	0.1	NS	NO	40.173722	-104.921987	Y
NATIVE-BG04@3'	2/14/2024	3	0.0	NS	NO	40.174202	-104.92269	Y
NATIVE-BG04@6'	2/14/2024	6	0.0	NS	NO	40.174202	-104.92269	Y
NATIVE-BG05@3'	2/14/2024	3	0.1	NS	NO	40.174361	-104.922538	Y
NATIVE-BG05@6'	2/14/2024	6	0.1	NS	NO	40.174361	-104.922538	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
VOGL 3&4&5-5, MCHALE M O SA FACILITY
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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	10/24/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
AST02@0.5'	10/24/2023	0.5	<0.200	30.1	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
AST03@0.5'	10/24/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@2'	10/24/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
PWV-E01@2'	10/24/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
PWV-B02@3'	10/25/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEPARATOR SAMPLES												
SEP01-INLET@3'	10/24/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP01-OUTLET@3'	10/24/2023	3	<0.200	<25.0	<100	0.00812	0.0121	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
			NA	NA	NA	0.0108	NA	NA	NA	NA	NA	NA
			NA	NA	NA	0.0139	NA	NA	NA	NA	NA	NA
SEP02-INLET@3'	10/25/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP02-OUTLET@3'	10/25/2023	3	2.40	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP03-INLET@3'	10/25/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP03-OUTLET@3'	10/25/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B01@5'	2/14/2024	5	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
N01@3'	2/14/2024	3	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
E01@3'	2/14/2024	3	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
S01@3'	2/14/2024	3	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA
W01@3'	2/14/2024	3	NA	NA	NA	<0.00200	<0.00200	<0.00200	<0.00200	NA	NA	NA

Notes:

ECMC - Energy and Carbon Management Commission
PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
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

ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
VOGL 3&4&5-5, MCHALE M O SA FACILITY
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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			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
ABOVEGROUND STORAGE TANK SAMPLES																
AST01@0.5'	10/24/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST02@0.5'	10/24/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST03@0.5'	10/24/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PRODUCED WATER VESSEL SAMPLES																
PWV-B01@2'	10/24/2023	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWV-E01@2'	10/24/2023	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWV-B02@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR SAMPLES																
SEP01-INLET@3'	10/24/2023	3	<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
SEP01-OUTLET@3'	10/24/2023	3	<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
SEP02-INLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP02-OUTLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP03-INLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP03-OUTLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@5'	2/14/2024	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N01@3'	2/14/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E01@3'	2/14/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	2/14/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W01@3'	2/14/2024	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
VOGL 3&4&5-5, MCHALE M O SA FACILITY
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)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB)			0.579	3.22	8.34	0.192
Site-Specific Background Limits (3-6')			0.483	6.96	8.22	0.291
ABOVEGROUND STORAGE TANK SAMPLES						
AST01@0.5'	10/24/2023	0.5	0.556	1.93	8.27	0.519
AST02@0.5'	10/24/2023	0.5	0.395	2.13	8.33*	0.323
AST03@0.5'	10/24/2023	0.5	0.635	2.32	8.27	0.215
PRODUCED WATER VESSEL SAMPLES						
PWV-B01@2'	10/24/2023	2	1.06	6.83*	8.18	0.148
PWV-E01@2'	10/24/2023	2	0.508	3.00	8.33*	0.352
PWV-B02@3'	10/25/2023	3	0.369	1.88	8.16	<0.101
SEPARATOR SAMPLES						
SEP01-INLET@3'	10/24/2023	3	0.197	0.0940	6.65	<0.101
SEP01-OUTLET@3'	10/24/2023	3	0.078	0.255	6.65	<0.0988
SEP02-INLET@3'	10/25/2023	3	0.0870	0.239	7.10	<0.102
SEP02-OUTLET@3'	10/25/2023	3	0.090	0.176	6.95	<0.0999
SEP03-INLET@3'	10/25/2023	3	0.159	0.152	7.27	<0.101
SEP03-OUTLET@3'	10/25/2023	3	0.300	0.581	8.28	<0.0993
B01@5'	2/14/2024	5	NA	NA	NA	NA
N01@3'	2/14/2024	3	NA	NA	NA	NA
E01@3'	2/14/2024	3	NA	NA	NA	NA
S01@3'	2/14/2024	3	NA	NA	NA	NA
W01@3'	2/14/2024	3	NA	NA	NA	NA
BACKGROUND SAMPLES						
TB-BG01@0.5'	10/25/2023	0.5	0.579	3.22	8.34	0.192
Native-BG01@3' (Rem No. 28996)	10/23/2023	3	0.435	5.84	8.10	0.240
Native-BG01@6' (Rem No. 28996)	10/23/2023	6	0.446	6.25	8.22	0.241
Native-BG02@3' (Rem No. 28996)	10/23/2023	3	0.357	4.69	7.70	0.291
Native-BG02@6' (Rem No. 28996)	10/23/2023	6	0.374	6.96	8.12	0.216
Native-BG03@3' (Rem No. 28996)	10/23/2023	3	0.447	3.56	7.80	0.136
Native-BG03@6' (Rem No. 28996)	10/23/2023	6	0.483	4.49	7.86	0.190
NATIVE-BG03@3'	2/14/2024	3	NA	NA	NA	NA
NATIVE-BG03@6'	2/14/2024	6	NA	NA	NA	NA
NATIVE-BG04@3'	2/14/2024	3	NA	NA	NA	NA
NATIVE-BG04@6'	2/14/2024	6	NA	NA	NA	NA
NATIVE-BG05@3'	2/14/2024	3	NA	NA	NA	NA
NATIVE-BG05@6'	2/14/2024	6	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
VOGL 3&4&5-5, MCHALE M O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds ECMC Table 915-1 allowable level and background

*Exceeds Table 915-1 allowable level but within analytical variability of background

^ - site-specific background is shown as 1.08x maximum background to account for analytical variability

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
VOGL 3&4&5-5, MCHALE M O SA FACILITY
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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Site-Specific Background Limits (3-6')			2.72	68	NA	NA	NA	NA	NA	NA	NA	NA
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	10/24/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST02@0.5'	10/24/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AST03@0.5'	10/24/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@2'	10/24/2023	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWV-E01@2'	10/24/2023	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWV-B02@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR SAMPLES												
SEP01-INLET@3'	10/24/2023	3	1.52*	36.4	<0.0838	<0.303	<8.38	<8.38	<8.38	<0.0838	<0.0838	<83.8
SEP01-OUTLET@3'	10/24/2023	3	1.53*	38.7	<0.0893	<0.306	<8.93	<8.93	<8.93	<0.0893	<0.0893	<89.3
SEP02-INLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP02-OUTLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP03-INLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP03-OUTLET@3'	10/25/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@5'	2/14/2024	5	2.46*	61.9	NA	NA	NA	NA	NA	NA	NA	NA
N01@3'	2/14/2024	3	2.36*	59.6	NA	NA	NA	NA	NA	NA	NA	NA
E01@3'	2/14/2024	3	2.28*	44.5	NA	NA	NA	NA	NA	NA	NA	NA
S01@3'	2/14/2024	3	1.89*	52.4	NA	NA	NA	NA	NA	NA	NA	NA
W01@3'	2/14/2024	3	2.26*	45.6	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SAMPLES												
TB-BG01@0.5'	10/25/2023	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG01@3' (Rem No. 28996)	10/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG01@6' (Rem No. 28996)	10/23/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@3' (Rem No. 28996)	10/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@6' (Rem No. 28996)	10/23/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@3' (Rem No. 28996)	10/23/2023	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@6' (Rem No. 28996)	10/23/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NATIVE-BG03@3'	2/14/2024	3	2.32	68.0	NA	NA	NA	NA	NA	NA	NA	NA
NATIVE-BG03@6'	2/14/2024	6	2.24	57.8	NA	NA	NA	NA	NA	NA	NA	NA
NATIVE-BG04@3'	2/14/2024	3	2.12	43.1	NA	NA	NA	NA	NA	NA	NA	NA
NATIVE-BG04@6'	2/14/2024	6	2.44	63.5	NA	NA	NA	NA	NA	NA	NA	NA
NATIVE-BG05@3'	2/14/2024	3	2.72	61.1	NA	NA	NA	NA	NA	NA	NA	NA
NATIVE-BG05@6'	2/14/2024	6	2.48	65.0	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
VOGL 3&4&5-5, MCHALE M O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:
ECMC - Energy and Carbon Management Commission
PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
ft - feet
bgs - below ground surface
mg/kg - milligrams per kilogram
< - less than laboratory reporting limit
NA - Not Analyzed/Not Applicable
Bold - exceeds ECMC Table 915-1 allowable level and background
*Exceeds Table 915-1 allowable level but within analytical variability of background
If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
VOGL 3 & 4 & 5-5, MCHALE M O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
ECMC Allowable Levels		5	560	700	1400	140	67	67	NA	250,000	250,000	
GW01	10/24/2023	3.49	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	NA	2.0

Notes: ECMC - Energy and Carbon Management Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

BOLD = Analytical result is in exceedance of ECMC Table 915-1 groundwater standards.

µg/L - micrograms per liter

< - less than laboratory reporting limit

Excavation groundwater depth is approximate

November 09, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Vogl 3&4&5-5 McHale M O SA Facility **Project Number - 09A1417334**

Attached are your analytical results for KMG - Vogl 3&4&5-5 McHale M O SA Facility received by Origins Laboratory, Inc. October 24, 2023. This project is associated with Origins project number Y310651-01.

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-BG01@0.5'	Y310651-01	Soil	October 24, 2023 12:45	10/24/2023 17:25
AST01@0.5'	Y310651-02	Soil	October 24, 2023 12:50	10/24/2023 17:25
AST02@0.5'	Y310651-03	Soil	October 24, 2023 12:55	10/24/2023 17:25
AST03@0.5'	Y310651-04	Soil	October 24, 2023 13:00	10/24/2023 17:25
PWV-B01@2'	Y310651-05	Soil	October 24, 2023 13:10	10/24/2023 17:25
PWV-E01@2'	Y310651-06	Soil	October 24, 2023 13:15	10/24/2023 17:25
SEP01-INLET@3'	Y310651-07	Soil	October 24, 2023 13:45	10/24/2023 17:25
SEP01-OUTLET@3'	Y310651-08	Soil	October 24, 2023 13:50	10/24/2023 17:25
PWV-GW	Y310651-09	Water	October 24, 2023 13:05	10/24/2023 17:25

Benzene rerun on sample SEP01-Inlet at 3' per the email from Jeremy on 10/25/23. JEP

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310651

Client: Ensolum

Client Project ID: Vogl 3&4&5-5 McHale M

Checklist Completed by: GHS

Shipped Via: TD

Date/time completed: 01/24/23

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

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

Reviewed by (Project Manager) Jordan A. Bynon Date/Time Reviewed 01/24/23

Origins Laboratory, Inc.

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

TB-BG01@0.5'
10/24/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.192	0.102	mg/L	1	B3J2514	10/25/2023	10/26/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.08	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.89	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.34	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	3.22	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.579	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

AST01@0.5'
10/24/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.519	0.0992	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/24/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

AST01@0.5'

10/24/2023 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130	B3J2438	10/24/2023	10/24/2023
Surrogate: Toluene-d8	90.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.74	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.10	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.27	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	1.93	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.556	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

AST02@0.5'

10/24/2023 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.323	0.101	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	30.1	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	77.3 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

AST02@0.5'

10/24/2023 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130	B3J2438	10/24/2023	10/25/2023
Surrogate: Toluene-d8	90.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	117 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.00	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.81	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.33	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	2.13	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.395	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

AST03@0.5'

10/24/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.215	0.102	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

AST03@0.5'

10/24/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y310651-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130	B3J2438	10/24/2023	10/25/2023
Surrogate: Toluene-d8	89.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.96	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.61	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.27	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	2.32	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.635	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-B01@2'

10/24/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.148	0.0998	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	98.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-B01@2'

10/24/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y310651-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130	B3J2438	10/24/2023	10/25/2023
Surrogate: Toluene-d8	91.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.37	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	6.60	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	6.83	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-E01@2'

10/24/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.352	0.100	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	93.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-E01@2'

10/24/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130	B3J2438	10/24/2023	10/25/2023
Surrogate: Toluene-d8	90.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.09	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.61	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.33	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	3.00	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.508	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-INLET@3'
10/24/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	102 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-INLET@3'

10/24/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130	B3J2438	10/24/2023	10/25/2023
Surrogate: Toluene-d8	91.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2639	10/26/2023	10/31/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-INLET@3'

10/24/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-07 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3J2639	10/26/2023	10/31/2023	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	128 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	6.65	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	0.0940	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.197	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
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Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-INLET@3'

10/24/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.52	0.0838	mg/kg	10	B3J2525	10/25/2023	10/27/2023
Barium	36.4	8.38	"	"	"	"	"
Cadmium	ND	0.0838	"	"	"	"	"
Copper	ND	8.38	"	"	"	"	"
Lead	ND	8.38	"	"	"	"	"
Nickel	ND	8.38	"	"	"	"	"
Selenium	ND	0.0838	"	"	"	"	"
Silver	ND	0.0838	"	"	"	"	"
Zinc	ND	83.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.121	0.303	mg/kg dry	1	2520393	11/07/2023	11/08/2023	U
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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-OUTLET@3'
10/24/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310651-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2405	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	101 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2438	10/24/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	0.00812	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.0121	0.00200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.7 %	70-130			"	"	"	

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-OUTLET@3'

10/24/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 115 % 70-130 B3J24 38 10/24/2023 10/25/2023

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/25/2023	10/26/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3J2639	10/26/2023	10/31/2023	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-OUTLET@3'

10/24/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-08 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2639	10/26/2023	10/31/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	129 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	6.65	pH Units	1	B3J2517	10/25/2023	10/26/2023
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SAR by 20B Saturated Paste

SAR	0.255	0.0100	SAR	1	B3J2509	10/25/2023	10/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0777	0.00500	mmhos/cm	1	B3J2517	10/25/2023	10/26/2023
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-OUTLET@3'

10/24/2023 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.53	0.0893	mg/kg	10	B3J2525	10/25/2023	10/27/2023
Barium	38.7	8.93	"	"	"	"	"
Cadmium	ND	0.0893	"	"	"	"	"
Copper	ND	8.93	"	"	"	"	"
Lead	ND	8.93	"	"	"	"	"
Nickel	ND	8.93	"	"	"	"	"
Selenium	ND	0.0893	"	"	"	"	"
Silver	ND	0.0893	"	"	"	"	"
Zinc	ND	89.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.122	0.306	mg/kg dry	1	2520393	11/07/2023	11/08/2023	U
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417334

Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-OUTLET@3'

10/24/2023 1:50:00PM

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

Y310651-08RE1 (Soil)

GBTEX+TMBs by 8260D

Benzene	0.0108	0.00200	mg/kg	1	B3J2438	10/24/2023	10/26/2023
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Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130	"	"	"
Surrogate: Toluene-d8	89.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	70-130	"	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417334

Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP01-OUTLET@3'

10/24/2023 1:50:00PM

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

Y310651-08RE2 (Soil)

GBTEX+TMBs by 8260D

Benzene	0.0139	0.00200	mg/kg	1	B3J2438	10/24/2023	10/26/2023
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Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130	"	"	"
Surrogate: Toluene-d8	90.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	117 %	70-130	"	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-GW

10/24/2023 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310651-09 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3J2433	10/24/2023	10/24/2023	Ua
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	Ua
Benzene	3.49	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	Ua
Naphthalene	ND	2.00	"	"	"	"	"	Ua
Toluene	ND	1.00	"	"	"	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2405 - EPA 3550B										
Blank (B3J2405-BLK1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2405 - EPA 3550B

LCS (B3J2405-BS1)

Prepared: 10/24/2023 Analyzed: 10/24/2023

Diesel (C10-C28)	966	50.0	mg/kg	1000		96.6	70-130			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2405 - EPA 3550B

Matrix Spike (B3J2405-MS1)		Source: Y310636-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130			
Residual Range Organics (C28-C40)	880	200	"	1000	ND	88.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.7	50-150			

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2405 - EPA 3550B										
Matrix Spike Dup (B3J2405-MSD1)		Source: Y310636-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
Diesel (C10-C28)	964	50.0	mg/kg	1000	ND	96.4	70-130	0.175	35	
Residual Range Organics (C28-C40)	883	200	"	1000	ND	88.3	70-130	0.380	35	
Surrogate: o-Terphenyl	49		"	49.8		98.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2433 - EPA 5030B (Water)										
Blank (B3J2433-BLK1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							Ua
1,3,5-Trimethylbenzene	ND	2.00	"							Ua
Benzene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Naphthalene	ND	2.00	"							Ua
Toluene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2433 - EPA 5030B (Water)										
LCS (B3J2433-BS1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	58.0	2.00	ug/L	50.0		116	70-130			
1,3,5-Trimethylbenzene	59.8	2.00	"	50.0		120	70-130			
Benzene	55.7	1.00	"	50.0		111	70-130			
Ethylbenzene	58.2	1.00	"	50.0		116	70-130			
m,p-Xylene	119	2.00	"	100		119	70-130			
Naphthalene	50.5	2.00	"	50.0		101	70-130			
o-Xylene	56.6	1.00	"	50.0		113	70-130			
Toluene	56.1	1.00	"	50.0		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 B3J2433 - EPA 5030B (Water)										
Matrix Spike (B3J2433-MS1)		Source: Y310629-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	50.2	2.00	ug/L	50.0	ND	100	70-130			
1,3,5-Trimethylbenzene	50.7	2.00	"	50.0	ND	101	70-130			
Benzene	44.8	1.00	"	50.0	0.100	89.3	70-130			
Ethylbenzene	48.0	1.00	"	50.0	ND	96.1	70-130			
m,p-Xylene	96.3	2.00	"	100	ND	96.3	70-130			
Naphthalene	38.6	2.00	"	50.0	0.780	75.6	70-130			
o-Xylene	47.2	1.00	"	50.0	ND	94.3	70-130			
Toluene	45.9	1.00	"	50.0	ND	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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 B3J2433 - EPA 5030B (Water)										
Matrix Spike Dup (B3J2433-MSD1)		Source: Y310629-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	54.8	2.00	ug/L	50.0	ND	110	70-130	8.90	20	
1,3,5-Trimethylbenzene	54.5	2.00	"	50.0	ND	109	70-130	7.07	20	
Benzene	51.1	1.00	"	50.0	0.100	102	70-130	13.2	20	
Ethylbenzene	53.9	1.00	"	50.0	ND	108	70-130	11.5	20	
m,p-Xylene	109	2.00	"	100	ND	109	70-130	12.2	20	
Naphthalene	45.2	2.00	"	50.0	0.780	88.8	70-130	15.8	20	
o-Xylene	53.8	1.00	"	50.0	ND	108	70-130	13.2	20	
Toluene	51.8	1.00	"	50.0	ND	104	70-130	12.0	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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
Batch B3J2438 - EPA 5030 (soil)										
Blank (B3J2438-BLK1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	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 B3J2438 - EPA 5030 (soil)										
LCS (B3J2438-BS1)					Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100		98.1	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0990	0.00200	"	0.100		99.0	70-130			
o-Xylene	0.0962	0.00200	"	0.100		96.2	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		123	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2438 - EPA 5030 (soil)

Matrix Spike (B3J2438-MS1)		Source: Y310636-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130			
Benzene	0.114	0.00200	"	0.100	ND	114	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0969	0.00380	"	0.100	ND	96.9	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.225	0.00400	"	0.200	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	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 B3J2438 - EPA 5030 (soil)										
Matrix Spike Dup (B3J2438-MSD1)		Source: Y310636-01			Prepared: 10/24/2023 Analyzed: 10/24/2023					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	2.86	20	
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	2.92	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	0.193	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	3.24	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	10.4	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	0.653	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	1.65	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	3.42	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.6	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 B3J2525 - EPA 3050B

Blank (B3J2525-BLK1)

Prepared: 10/25/2023 Analyzed: 10/27/2023

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 (B3J2525-BS1)

Prepared: 10/25/2023 Analyzed: 10/27/2023

Arsenic	0.0541	0.000100	mg/kg	0.0500	108	80-120
Barium	5.01	0.0100	"	5.00	100	80-120
Cadmium	0.0524	0.000100	"	0.0500	105	80-120
Copper	0.509	0.0100	"	0.500	102	80-120
Lead	0.0518	0.0100	"	0.0500	104	80-120
Nickel	0.0501	0.0100	"	0.0500	100	80-120
Selenium	0.0456	0.000100	"	0.0500	91.2	80-120
Silver	0.0543	0.000100	"	0.0500	109	80-120
Zinc	0.478	0.100	"	0.500	95.7	80-120

Matrix Spike (B3J2525-MS1)

Source: Y310625-03

Prepared: 10/25/2023 Analyzed: 10/27/2023

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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 B3J2525 - EPA 3050B

Matrix Spike (B3J2525-MS1)		Source: Y310625-03			Prepared: 10/25/2023 Analyzed: 10/27/2023					
Arsenic	7.04	0.0951	mg/kg	4.75	2.16	103	75-125			
Barium	530	9.51	"	475	42.1	103	75-125			
Cadmium	5.05	0.0951	"	4.75	0.0968	104	75-125			
Copper	57.0	9.51	"	47.5	6.28	107	75-125			
Lead	13.6	9.51	"	4.75	8.65	103	75-125			
Nickel	13.1	9.51	"	4.75	7.92	108	75-125			
Selenium	4.48	0.0951	"	4.75	0.0698	92.7	75-125			
Silver	5.18	0.0951	"	4.75	0.0465	108	75-125			
Zinc	75.5	95.1	"	47.5	26.8	102	75-125			
Matrix Spike Dup (B3J2525-MSD1)		Source: Y310625-03			Prepared: 10/25/2023 Analyzed: 10/27/2023					
Arsenic	6.81	0.0894	mg/kg	4.47	2.16	104	75-125	3.38	20	
Barium	492	8.94	"	447	42.1	101	75-125	7.53	20	
Cadmium	4.71	0.0894	"	4.47	0.0968	103	75-125	7.01	20	
Copper	53.6	8.94	"	44.7	6.28	106	75-125	6.32	20	
Lead	11.4	8.94	"	4.47	8.65	62.4	75-125	16.9	20	QM-07
Nickel	13.1	8.94	"	4.47	7.92	116	75-125	0.329	20	
Selenium	3.90	0.0894	"	4.47	0.0698	85.6	75-125	13.8	20	
Silver	4.77	0.0894	"	4.47	0.0465	106	75-125	8.12	20	
Zinc	70.8	89.4	"	44.7	26.8	98.3	75-125	6.40	20	

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Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2639 - EPA 3580

Blank (B3J2639-BLK1)

Prepared: 10/26/2023 Analyzed: 10/31/2023

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200	98.7	60-130
Surrogate: Anthracene-d10	190		"	200	93.8	60-130
Surrogate: Pyrene-d10	250		"	200	124	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	97.7	60-130

LCS (B3J2639-BS1)

Prepared: 10/26/2023 Analyzed: 10/31/2023

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	93.2	70-130
2-Methylnaphthalene	0.185	0.002	"	0.200	92.4	70-130
Acenaphthene	0.191	0.020	"	0.200	95.4	70-130
Anthracene	0.181	0.020	"	0.200	90.3	70-130

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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 B3J2639 - EPA 3580

LCS (B3J2639-BS1)

Prepared: 10/26/2023 Analyzed: 10/31/2023

Benzo (a) anthracene	0.167	0.005	mg/kg	0.200		83.4	70-130
Benzo (a) pyrene	0.195	0.020	"	0.200		97.4	70-130
Benzo (b) fluoranthene	0.203	0.020	"	0.200		101	70-130
Benzo (g,h,i) perylene	0.203	0.020	"	0.200		102	70-130
Benzo (k) fluoranthene	0.182	0.020	"	0.200		90.9	70-130
Chrysene	0.191	0.020	"	0.200		95.4	70-130
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		96.9	70-130
Fluoranthene	0.167	0.020	"	0.200		83.5	70-130
Fluorene	0.190	0.020	"	0.200		95.0	70-130
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200		108	70-130
Naphthalene	0.193	0.002	"	0.200		96.5	70-130
Phenanthrene	0.185	0.020	"	0.200		92.3	70-130
Pyrene	0.232	0.020	"	0.200		116	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130
Surrogate: Anthracene-d10	190		"	200		94.5	60-130
Surrogate: Pyrene-d10	250		"	200		125	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

Matrix Spike (B3J2639-MS1)

Source: Y310586-01

Prepared: 10/26/2023 Analyzed: 10/31/2023

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	ND	94.8	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.5	70-130
Acenaphthene	0.198	0.020	"	0.200	ND	98.8	70-130
Anthracene	0.169	0.020	"	0.200	ND	84.5	70-130
Benzo (a) anthracene	0.184	0.005	"	0.200	ND	92.1	70-130
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200	ND	109	70-130
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	104	70-130

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2639 - EPA 3580

Matrix Spike (B3J2639-MS1)		Source: Y310586-01			Prepared: 10/26/2023 Analyzed: 10/31/2023					
Benzo (k) fluoranthene	0.191	0.020	mg/kg	0.200	ND	95.7	70-130			
Chrysene	0.182	0.020	"	0.200	ND	90.9	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.4	70-130			
Fluoranthene	0.176	0.020	"	0.200	ND	88.2	70-130			
Fluorene	0.198	0.020	"	0.200	ND	98.9	70-130			
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	ND	111	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.183	0.020	"	0.200	ND	91.7	70-130			
Pyrene	0.249	0.020	"	0.200	ND	124	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.8	60-130			
Surrogate: Pyrene-d10	260		"	200		129	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B3J2639-MSD1)		Source: Y310586-01			Prepared: 10/26/2023 Analyzed: 10/31/2023					
1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	ND	91.4	70-130	3.74	20	
2-Methylnaphthalene	0.187	0.002	"	0.200	ND	93.4	70-130	1.13	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.7	70-130	3.22	20	
Anthracene	0.164	0.020	"	0.200	ND	81.8	70-130	3.24	20	
Benzo (a) anthracene	0.170	0.005	"	0.200	ND	85.0	70-130	8.11	20	
Benzo (a) pyrene	0.198	0.020	"	0.200	ND	99.0	70-130	7.83	20	
Benzo (b) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130	6.51	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	ND	96.8	70-130	6.79	20	
Benzo (k) fluoranthene	0.156	0.020	"	0.200	ND	78.0	70-130	20.4	20	QR-02
Chrysene	0.173	0.020	"	0.200	ND	86.6	70-130	4.81	20	
Dibenz (a,h) anthracene	0.186	0.020	"	0.200	ND	92.8	70-130	6.84	20	
Fluoranthene	0.169	0.020	"	0.200	ND	84.3	70-130	4.57	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2639 - EPA 3580

Matrix Spike Dup (B3J2639-MSD1)		Source: Y310586-01			Prepared: 10/26/2023 Analyzed: 10/31/2023					
Fluorene	0.190	0.020	mg/kg	0.200	ND	95.1	70-130	4.01	20	
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200	ND	102	70-130	8.89	20	
Naphthalene	0.199	0.002	"	0.200	ND	99.7	70-130	0.480	20	
Phenanthrene	0.185	0.020	"	0.200	ND	92.6	70-130	1.02	20	
Pyrene	0.241	0.020	"	0.200	ND	120	70-130	3.28	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		95.2	60-130			
Surrogate: Pyrene-d10	260		"	200		129	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2509 - Saturated Paste Metals

Blank (B3J2509-BLK1)

Prepared: 10/25/2023 Analyzed: 10/26/2023

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

Duplicate (B3J2509-DUP1)

Source: Y310555-01

Prepared: 10/25/2023 Analyzed: 10/26/2023

SAR	ND	0.0100	SAR	1.36		200
Calcium PPM	20.4	10.0	mg/L	17.2	17.1	50
Magnesium PPM	3.82	10.0	"	3.05	22.4	50
Sodium PPM	26.6	10.0	"	23.2	13.6	50

Batch B3J2514 - DTPA Sorbitol Preparation

Blank (B3J2514-BLK1)

Prepared: 10/25/2023 Analyzed: 10/26/2023

Boron	ND	0.100	mg/L
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Duplicate (B3J2514-DUP1)

Source: Y310549-01

Prepared: 10/25/2023 Analyzed: 10/26/2023

Boron	0.760	0.101	mg/L	ND		50
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2517 - Saturated Paste pH/EC										
Blank (B3J2517-BLK1)					Prepared: 10/25/2023 Analyzed: 10/26/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3J2517-DUP1)					Source: Y310555-01 Prepared: 10/25/2023 Analyzed: 10/26/2023					
pH	8.19		pH Units		8.21			0.244	25	
Specific Conductance (EC)	0.273	0.00500	mmhos/cm		0.244			11.0	25	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2520393 - SW846 3060A										
BLANK (1205567028-BLK)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.327	mg/kg				-			U
LCS (1205567029-BKS)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	3.22	0.324	mg/kg	3.24		99.3	80-120			
DUP (1205567030 D)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Source: 642970001										
Hexavalent Chromium	ND	0.269	mg/kg dry		<0.108		0-50	N/A	50	U
MS (1205567031 S)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Source: 642970001										
Hexavalent Chromium	2.50	0.269	mg/kg dry	2.69	<0.108	92.7	75-125			
ILCS (1205567034-ILCS)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	5.81	0.291	mg/kg	6.21		93.5	80-120			

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA
Facility

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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November 09, 2023

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Vogl 3&4&5-5 McHale M O SA Facility **Project Number - 09A1417334**

Attached are your analytical results for KMG - Vogl 3&4&5-5 McHale M O SA Facility received by Origins Laboratory, Inc. October 25, 2023. This project is associated with Origins project number Y310692-01.

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: 09A1417334

Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP02-INLET@3'	Y310692-01	Soil	October 25, 2023 14:15	10/25/2023 17:40
SEP02-OUTLET@3'	Y310692-02	Soil	October 25, 2023 14:30	10/25/2023 17:40
SEP03-INLET@3'	Y310692-03	Soil	October 25, 2023 14:45	10/25/2023 17:40
SEP03-OUTLET@3'	Y310692-04	Soil	October 25, 2023 14:40	10/25/2023 17:40
PWV-B02@3'	Y310692-05	Soil	October 25, 2023 15:30	10/25/2023 17:40
NATIVE-BG01@3'	Y310692-06	Soil	October 25, 2023 15:45	10/25/2023 17:40
NATIVE-BG01@6'	Y310692-07	Soil	October 25, 2023 15:50	10/25/2023 17:40
NATIVE-BG02@3'	Y310692-08	Soil	October 25, 2023 15:55	10/25/2023 17:40
NATIVE-BG02@6'	Y310692-09	Soil	October 25, 2023 16:00	10/25/2023 17:40

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: 09A1417334

Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 43104602 Client: Ensolum

Checklist Completed by: EHS Client Project ID: Vogl 3+4+5-5 McHale

Date/time completed: 10/25/23 Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1, 5 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) Emilio Espinoza Date/Time Reviewed 10/25/23

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP02-INLET@3'
10/25/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310692-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B3J2610	10/26/2023	10/27/2023	Ua
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	10/25/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.2 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	10/25/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP02-INLET@3'

10/25/2023 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B3J2530	10/25/2023	10/25/2023	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

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

pH in Soil by 9045D

pH	7.10		pH Units	1	B3J2622		10/26/2023	10/27/2023	
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SAR by 20B Saturated Paste

SAR	0.239	0.0100	SAR	1	B3J2616		10/26/2023	10/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0870	0.00500	mmhos/cm	1	B3J2622		10/26/2023	10/27/2023	
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP02-OUTLET@3'
10/25/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310692-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B3J2610	10/26/2023	10/27/2023	Ua
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	10/25/2023	10/26/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.7 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	10/25/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	2.40	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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP02-OUTLET@3'

10/25/2023 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B3J2530	10/25/2023	10/25/2023	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

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

pH in Soil by 9045D

pH	6.95		pH Units	1	B3J2622		10/26/2023	10/27/2023	
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SAR by 20B Saturated Paste

SAR	0.176	0.0100	SAR	1	B3J2616		10/26/2023	10/27/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0895	0.00500	mmhos/cm	1	B3J2622		10/26/2023	10/27/2023	
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP03-INLET@3'

10/25/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3J2611	10/26/2023	10/27/2023	Ua
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	10/25/2023	10/26/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	93.7 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	10/25/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP03-INLET@3'

10/25/2023 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3J2530	10/25/2023	10/25/2023	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.642	0.499	meq/L	10	[CALC]	10/26/2023	10/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.27		pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	0.152	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.159	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP03-OUTLET@3'
10/25/2023 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310692-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B3J2611	10/26/2023	10/27/2023	Ua
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	10/25/2023	10/26/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	10/25/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

SEP03-OUTLET@3'

10/25/2023 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3J2530	10/25/2023	10/25/2023	
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.47	0.499	meq/L	10	[CALC]	10/26/2023	10/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.594	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	0.581	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.300	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-B02@3'

10/25/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310692-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3J2611	10/26/2023	10/27/2023	Ua
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	10/25/2023	10/26/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	10/25/2023	10/25/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

PWV-B02@3'

10/25/2023 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310692-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	B3J2530	10/25/2023	10/25/2023
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.5 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.972	0.499	meq/L	10	[CALC]	10/26/2023	10/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.60	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.16	pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	1.88	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.369	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG01@3'

10/25/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3J2611	10/26/2023	10/27/2023	Ua
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	10/26/2023	10/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.99	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.68		pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	5.99	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.386	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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Table 915 metals by EPA 6020B

Arsenic	1.92	0.0946	mg/kg	10	B3J2707	10/27/2023	10/30/2023
Barium	44.3	9.46	"	"	"	"	"
Cadmium	0.182	0.0946	"	"	"	"	"

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG01@3'

10/25/2023 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.46	mg/kg	10	B3J2707	10/27/2023	10/30/2023	Ua
Lead	ND	9.46	"	"	"	"	"	Ua
Nickel	ND	9.46	"	"	"	"	"	Ua
Selenium	0.106	0.0946	"	"	"	"	"	
Silver	ND	0.0946	"	"	"	"	"	Ua
Zinc	ND	94.6	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.116	0.290	mg/kg dry	1	2520399	11/07/2023	11/08/2023	U
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG01@6'

10/25/2023 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.993	mg/L	10	B3J2611	10/26/2023	10/31/2023	Ua
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Metals by Saturated Paste by EPA 6010

Calcium	1.54	0.499	meq/L	"	[CALC]	10/26/2023	10/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.37	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.44	pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	3.19	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.679	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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Table 915 metals by EPA 6020B

Arsenic	2.23	0.0951	mg/kg	10	B3J2707	10/27/2023	10/30/2023
Barium	68.8	9.51	"	"	"	"	"
Cadmium	0.105	0.0951	"	"	"	"	"
Copper	ND	9.51	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG01@6'

10/25/2023 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-07 (Soil)

Table 915 metals by EPA 6020B

Lead	ND	9.51	mg/kg	10	B3J2707	10/27/2023	10/30/2023	Ua
Nickel	ND	9.51	"	"	"	"	"	Ua
Selenium	0.111	0.0951	"	"	"	"	"	
Silver	ND	0.0951	"	"	"	"	"	Ua
Zinc	ND	95.1	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.125	0.313	mg/kg dry	1	2520399	11/07/2023	11/08/2023	U
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG02@3'

10/25/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B3J2611	10/26/2023	10/27/2023	Ua
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Metals by Saturated Paste by EPA 6010

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

pH in Soil by 9045D

pH	6.55	pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	1.42	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0968	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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Table 915 metals by EPA 6020B

Arsenic	1.88	0.0874	mg/kg	10	B3J2707	10/27/2023	10/30/2023
Barium	44.7	8.74	"	"	"	"	"
Cadmium	ND	0.0874	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG02@3'

10/25/2023 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.74	mg/kg	10	B3J2707	10/27/2023	10/30/2023	Ua
Lead	ND		8.74	"	"	"	"	"	Ua
Nickel	ND		8.74	"	"	"	"	"	Ua
Selenium	ND		0.0874	"	"	"	"	"	Ua
Silver	ND		0.0874	"	"	"	"	"	Ua
Zinc	ND		87.4	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.107	0.267	mg/kg dry	1	2520399	11/07/2023	11/08/2023	U
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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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG02@6'

10/25/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.102	mg/L	1	B3J2611	10/26/2023	10/27/2023	Ua
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Metals by Saturated Paste by EPA 6010

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

pH in Soil by 9045D

pH	6.78	pH Units	1	B3J2622	10/26/2023	10/27/2023
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SAR by 20B Saturated Paste

SAR	1.26	0.0100	SAR	1	B3J2616	10/26/2023	10/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0975	0.00500	mmhos/cm	1	B3J2622	10/26/2023	10/27/2023
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Table 915 metals by EPA 6020B

Arsenic	1.52	0.0883	mg/kg	10	B3J2707	10/27/2023	10/30/2023
Barium	37.2	8.83	"	"	"	"	"
Cadmium	ND	0.0883	"	"	"	"	Ua

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: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

NATIVE-BG02@6'

10/25/2023 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y310692-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.83	mg/kg	10	B3J2707	10/27/2023	10/30/2023	Ua
Lead	ND	8.83	"	"	"	"	"	Ua
Nickel	ND	8.83	"	"	"	"	"	Ua
Selenium	ND	0.0883	"	"	"	"	"	Ua
Silver	ND	0.0883	"	"	"	"	"	Ua
Zinc	ND	88.3	"	"	"	"	"	Ua

Total Metals by 7196A

Hexavalent Chromium	ND	0.145	0.363	mg/kg dry	1	2520399	11/07/2023	11/08/2023	U
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Jen Pellegrini, Project Manager

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2527 - EPA 3550B										
Blank (B3J2527-BLK1)					Prepared: 10/25/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		86.0	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2527 - EPA 3550B

LCS (B3J2527-BS1)

Prepared: 10/25/2023 Analyzed: 10/25/2023

Diesel (C10-C28)	874	50.0	mg/kg	1000		87.4	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.0	50-150			

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2527 - EPA 3550B

Matrix Spike (B3J2527-MS1)		Source: Y310679-01			Prepared: 10/25/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

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Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2527 - EPA 3550B

Matrix Spike Dup (B3J2527-MSD1)		Source: Y310679-01			Prepared: 10/25/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130	4.41	35	
Residual Range Organics (C28-C40)	986	200	"	1000	ND	98.6	70-130	4.85	35	
Surrogate: o-Terphenyl	51		"	49.8		103	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 B3J2530 - EPA 5030 (soil)										
Blank (B3J2530-BLK1)					Prepared: 10/25/2023 Analyzed: 10/25/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2530 - EPA 5030 (soil)

LCS (B3J2530-BS1)

Prepared: 10/25/2023 Analyzed: 10/25/2023

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	95.5		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.7		70-130			

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2530 - EPA 5030 (soil)

Matrix Spike (B3J2530-MS1)		Source: Y310679-01			Prepared: 10/25/2023 Analyzed: 10/25/2023					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.109	0.00200	"	0.100	ND	109	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.104	0.00380	"	0.100	0.00110	103	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2530 - EPA 5030 (soil)										
Matrix Spike Dup (B3J2530-MSD1)		Source: Y310679-01			Prepared: 10/25/2023 Analyzed: 10/25/2023					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	0.0750	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	0.407	20	
Benzene	0.109	0.00200	"	0.100	ND	109	70-130	0.165	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.07	20	
Naphthalene	0.105	0.00380	"	0.100	0.00110	104	70-130	1.66	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	0.176	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	0.217	20	
m,p-Xylene	0.211	0.00400	"	0.200	ND	105	70-130	0.775	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2707 - EPA 3050B

Blank (B3J2707-BLK1)

Prepared: 10/27/2023 Analyzed: 10/30/2023

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

LCS (B3J2707-BS1)

Prepared: 10/27/2023 Analyzed: 10/30/2023

Arsenic	0.0477	0.000100	mg/kg	0.0500		95.4	80-120
Barium	4.97	0.0100	"	5.00		99.4	80-120
Cadmium	0.0521	0.000100	"	0.0500		104	80-120
Copper	0.490	0.0100	"	0.500		98.0	80-120
Lead	0.0503	0.0100	"	0.0500		101	80-120
Nickel	0.0496	0.0100	"	0.0500		99.2	80-120
Selenium	0.0469	0.000100	"	0.0500		93.8	80-120
Silver	0.0522	0.000100	"	0.0500		104	80-120
Zinc	0.467	0.100	"	0.500		93.3	80-120

Matrix Spike (B3J2707-MS1)

Source: Y310692-06

Prepared: 10/27/2023 Analyzed: 10/30/2023

Origins Laboratory, Inc.



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Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2707 - EPA 3050B

Matrix Spike (B3J2707-MS1)		Source: Y310692-06			Prepared: 10/27/2023 Analyzed: 10/30/2023					
Arsenic	6.46	0.0929	mg/kg	4.64	1.92	97.7	75-125			
Barium	528	9.29	"	464	44.3	104	75-125			
Cadmium	5.18	0.0929	"	4.64	0.182	108	75-125			
Copper	55.2	9.29	"	46.4	8.29	101	75-125			
Lead	10.7	9.29	"	4.64	6.86	82.7	75-125			
Nickel	11.1	9.29	"	4.64	7.21	83.7	75-125			
Selenium	4.48	0.0929	"	4.64	0.106	94.2	75-125			
Silver	5.07	0.0929	"	4.64	0.0908	107	75-125			
Zinc	69.4	92.9	"	46.4	28.1	89.0	75-125			Ua
Matrix Spike Dup (B3J2707-MSD1)		Source: Y310692-06			Prepared: 10/27/2023 Analyzed: 10/30/2023					
Arsenic	6.53	0.0854	mg/kg	4.27	1.92	108	75-125	1.05	20	
Barium	530	8.54	"	427	44.3	114	75-125	0.334	20	
Cadmium	5.18	0.0854	"	4.27	0.182	117	75-125	0.0515	20	
Copper	54.8	8.54	"	42.7	8.29	109	75-125	0.662	20	
Lead	11.2	8.54	"	4.27	6.86	102	75-125	4.49	20	
Nickel	12.2	8.54	"	4.27	7.21	116	75-125	9.28	20	
Selenium	4.26	0.0854	"	4.27	0.106	97.4	75-125	4.91	20	
Silver	4.98	0.0854	"	4.27	0.0908	115	75-125	1.73	20	
Zinc	74.8	85.4	"	42.7	28.1	109	75-125	7.43	20	Ua

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Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

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 B3J2610 - DTPA Sorbitol Preparation

Blank (B3J2610-BLK1)

Prepared: 10/26/2023 Analyzed: 10/27/2023

Boron	ND	0.100	mg/L							Ua
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Duplicate (B3J2610-DUP1)

Source: Y310679-04

Prepared: 10/26/2023 Analyzed: 10/27/2023

Boron	1.69	0.101	mg/L		1.67			0.807	50	
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Batch B3J2611 - DTPA Sorbitol Preparation

Blank (B3J2611-BLK1)

Prepared: 10/26/2023 Analyzed: 10/27/2023

Boron	ND	0.100	mg/L							Ua
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Duplicate (B3J2611-DUP1)

Source: Y310572-01

Prepared: 10/26/2023 Analyzed: 10/27/2023

Boron	0.416	0.102	mg/L		0.400			3.89	50	
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Batch B3J2616 - Saturated Paste Metals

Blank (B3J2616-BLK1)

Prepared: 10/26/2023 Analyzed: 10/27/2023

Calcium PPM	ND	10.0	mg/L							Ua
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SAR	ND	0.0100	SAR							Ua
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Magnesium PPM	ND	10.0	mg/L							Ua
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Sodium PPM	ND	10.0	"							Ua
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Duplicate (B3J2616-DUP1)

Source: Y310680-06

Prepared: 10/26/2023 Analyzed: 10/27/2023

Calcium PPM	364	10.0	mg/L		362			0.573	50	
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SAR	ND	0.0100	SAR		2.47				200	Ua
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Magnesium PPM	354	10.0	mg/L		353			0.141	50	
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Sodium PPM	283	10.0	"		276			2.43	50	
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2622 - Saturated Paste pH/EC										
Blank (B3J2622-BLK1)					Prepared: 10/26/2023 Analyzed: 10/27/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
Duplicate (B3J2622-DUP1)					Source: Y310680-06 Prepared: 10/26/2023 Analyzed: 10/27/2023					
pH	8.12		pH Units		8.16			0.491	25	
Specific Conductance (EC)	4.30	0.00500	mmhos/cm		4.24			1.26	25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417334
Project: KMG - Vogl 3&4&5-5 McHale M O SA Facility

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2520399 - SW846 3060A										
BLANK (1205567046-BLK)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.360	mg/kg				-			U
LCS (1205567047-BKS)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	3.35	0.333	mg/kg	3.33		100	80-120			
DUP (1205567048 D)					Source: 642969001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.417	mg/kg dry		<0.167		0-50	N/A	50	U
MS (1205567049 S)					Source: 642969001 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	3.87	0.417	mg/kg dry	4.17	<0.167	92.7	75-125			
DUP (1205567050 D)					Source: 642970009 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	ND	0.267	mg/kg dry		<0.107		0-50	N/A	50	U
MS (1205567051 S)					Source: 642970009 Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	2.39	0.267	mg/kg dry	2.67	<0.107	89.4	75-125			
ILCS (1205567052-ILCS)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Hexavalent Chromium	7.78	0.387	mg/kg	7.75		100	80-120			

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: 09A1417334

Project: KMG - Vogl 3&4&5-5 McHale M O SA
Facility

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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