

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
POPE 11-35, SCOTSDALE 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@6"-WP	06/16/2022	0.50	2453	Stain	Odor	40.26605839	-104.8656224	Y
AST01 Drain	06/16/2022	NA	632.5	Stain	Odor	40.26605678	-104.865616	N
AST01 Dumpline (R)	06/16/2022	NA	47.5	NS	NO	40.26608216	-104.8655835	N
AST01 Dumpline (L)	06/16/2022	NA	27.2	NS	NO	40.26609729	-104.8656184	N
AST01 Loadout	06/16/2022	NA	143.5	Stain	NO	40.2660966	-104.8655998	N
AST01 Footprint	06/16/2022	NA	6.4	NS	NO	40.26607661	-104.86561	N
AST02@6"-WP	06/16/2022	0.50	1246	Stain	Odor	40.26608397	-104.8656819	Y
AST02 Drain	06/16/2022	NA	359.3	Stain	Odor	40.26608189	-104.8656751	N
AST02 Dumpline (R)	06/16/2022	NA	3.8	NS	NO	40.26611498	-104.8656469	N
AST02 Dumpline (L)	06/16/2022	NA	8.8	NS	NO	40.26612324	-104.8656721	N
AST02 Loadout	06/16/2022	NA	16.9	NS	NO	40.2661217	-104.8656581	N
AST02 Footprint	06/16/2022	NA	6.2	NS	NO	40.26610316	-104.8656702	N
AST01-B01@4'	08/08/2022	4	3.6	NS	NO	40.26607973	-104.8656493	Y
AST02-B01@4'	08/08/2022	4	4.4	NS	NO	40.26609166	-104.8656849	Y
PRODUCED WATER VESSEL SAMPLES								
PWV N Wall	06/16/2022	1.5	1.5	NS	NO	40.26607066	-104.8655439	N
PWV E Wall	06/16/2022	1.5	3.1	NS	NO	40.26604576	-104.8655357	N
PWV-S01@1.5'-WP	06/16/2022	1.5	174.2	Stain	NO	40.2660354	-104.8655678	Y
PWV W Wall	06/16/2022	1.5	1.7	NS	NO	40.26606041	-104.8655744	N
PWV-B01@5'	06/16/2022	5	3.1	NS	NO	40.26605327	-104.8655549	Y
PWVB02@4'	08/08/2022	4	1.6	NS	NO	40.26610339	-104.8655444	Y
PWVN01@3'	08/08/2022	3	6.7	NS	NO	40.26605659	-104.8655287	Y
PWVE01@3'	08/08/2022	3	5.3	NS	NO	40.2660297	-104.8655568	Y
PWVS02@3'	08/08/2022	3	2.6	NS	NO	40.26607203	-104.8655767	Y
PWVW01@3'	08/08/2022	3	7.1	NS	NO	40.26606164	-104.8655423	Y
COMBINED EXCAVATION SAMPLES								
N01@3'	08/08/2022	3	3.4	NS	NO	40.2661163	-104.8656718	Y
E01@3'	08/08/2022	3	2.1	NS	NO	40.26607516	-104.8656139	Y
S01@3'	08/08/2022	3	2.6	NS	NO	40.26607265	-104.8656564	Y
W01@3'	08/08/2022	3	68.5	Stain	Odor	40.26610786	-104.8657008	Y
E02@3'	09/15/2022	3	0.0	NS	NO	40.26605	-104.865529	Y
W02@6'	09/15/2022	6	0.3	NS	NO	40.266158	-104.865761	Y
N02@6'	09/15/2022	6	0.2	NS	NO	40.266157	-104.865704	Y
N03@6'	09/15/2022	6	0.1	NS	NO	40.26612981	-104.8656327	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
COMBINED EXCAVATION SAMPLES								
N04@6'	09/15/2022	6	0.0	NS	NO	40.26608873	-104.8656077	Y
S02@7'	09/15/2022	7	0.0	NS	NO	40.26609115	-104.8657293	Y
S03@7'	09/15/2022	7	0.0	NS	NO	40.26604832	-104.8656542	Y
S04@3'	09/15/2022	3	0.0	NS	NO	40.26603067	-104.8655795	Y
B01@14'	09/15/2022	14	12.3	NS	NO	40.26612994	-104.8657061	Y
B02@14'	09/15/2022	14	2.7	NS	NO	40.26608258	-104.8656873	Y
B03@14'	09/15/2022	14	2.7	NS	NO	40.26608715	-104.8656274	Y
E03@3'	10/04/2022	3	0.4	NS	NO	40.26601927	-104.8655044	Y
B04@6'	10/04/2022	6	0.0	NS	NO	40.26602762	-104.8655216	Y
N05@3'	10/04/2022	3	0.0	NS	NO	40.26604918	-104.8655134	Y
S05@3'	10/04/2022	3	0.0	NS	NO	40.26600917	-104.8655287	Y
S06@3'	11/14/2022	3	0.2	NS	NO	40.26599483	-104.865549	Y
E04@3'	11/14/2022	3	0.8	NS	NO	40.26600725	-104.8654949	Y
S07@3'	11/29/2022	3	0.4	NS	NO	40.26596285	-104.8655093	Y
S08@3'	11/29/2022	3	0.3	NS	NO	40.26597683	-104.8655711	Y
E05@3'	11/29/2022	3	0.0	NS	NO	40.26598878	-104.8654516	Y
N06@3'	11/29/2022	3	0.0	NS	NO	40.26602186	-104.8654672	Y
B05@6'	11/29/2022	6	0.2	NS	NO	40.26598273	-104.8654962	Y
MISCELLANEOUS SAMPLES								
Separator to Meter Conn.	06/16/2022	NA	1.5	NS	NO	40.26604782	-104.8652723	N
ECD	06/16/2022	NA	3.8	NS	NO	40.2659111	-104.8651419	N
BACKGROUND SOIL SAMPLES								
TB-BG01@6"	06/16/2022	0.50	NA	NS	NO	40.26614586	-104.8656813	Y
Native-BG01@3' (Rem #20764)	01/26/2022	3	NA	NS	NO	40.2663297	-104.862106	Y
Native-BG01@6' (Rem #20764)	01/26/2022	6	NA	NS	NO	40.2663297	-104.862106	Y
Native-BG02@3' (Rem #20764)	01/26/2022	3	NA	NS	NO	40.26624236	-104.8619672	Y
Native-BG02@6' (Rem #20764)	01/26/2022	6	NA	NS	NO	40.26624236	-104.8619672	Y
Native-BG03@3' (Rem #20764)	01/26/2022	3	NA	NS	NO	40.26613451	-104.8621014	Y
Native-BG03@6' (Rem #20764)	01/26/2022	6	NA	NS	NO	40.26613451	-104.8621014	Y
Native-BG04@3' (Rem #20764)	01/26/2022	3	NA	NS	NO	40.26623884	-209.7244141	Y
Native-BG04@6' (Rem #20764)	01/26/2022	6	NA	NS	NO	40.26623884	-209.7244141	Y
Native-BG01@3' (Rem #20764)	06/23/2022	3	0.0	NS	NO	40.26617725	-104.8622193	Y
Native-BG01@6' (Rem #20764)	06/23/2022	6	0.0	NS	NO	40.26617725	-104.8622193	Y
Native-BG02@3' (Rem #20764)	06/23/2022	3	0.0	NS	NO	40.26615838	-104.8621645	Y

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
BACKGROUND SOIL SAMPLES								
Native-BG02@6' (Rem #20764)	06/23/2022	6	0.0	NS	NO	40.26615838	-104.8621645	Y
Native-BG03@3' (Rem #20764)	06/23/2022	3	0.0	NS	NO	40.26609871	-104.8621809	Y
Native-BG03@6' (Rem #20764)	06/23/2022	6	0.0	NS	NO	40.26609871	-104.8621809	Y
Native-BG04@3' (Rem #20764)	06/23/2022	3	0.0	NS	NO	40.26610205	-104.862223	Y
Native-BG04@6' (Rem #20764)	06/23/2022	6	0.0	NS	NO	40.26610205	-104.862223	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
POPE 11-35, SCOTSDALE 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)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@6"-WP	06/16/2022	0.50	903	10600	4020	1.31	36.1	7.97	166	76.0	41.7	0.674
AST02@6"-WP	06/16/2022	0.50	303	7570	3470	<0.0500	0.920	<0.0500	18.5	30.1	9.63	0.957
AST01-B01@4'	08/08/2022	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
AST01-B01@4'	08/08/2022	4	<0.200	38.2	<100	NA	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00067
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@5'	06/16/2022	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
PWV-S01@1.5'-WP	06/16/2022	1.5	<0.200	<25.0	<100	<0.00200	0.00560	<0.00200	0.0364	0.0250	0.0117	0.000984
PWVB02@4'	08/08/2022	4	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	NA
PWVN01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	NA
PWVE01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	NA
PWVS02@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	NA
PWVW01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	<0.00200	<0.00200	NA
COMBINED EXCAVATION SAMPLES												
N01@3'	08/08/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
E01@3'	08/08/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
S01@3'	08/08/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
W01@3'	08/08/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300	<0.00200	0.00596
E02@3'	09/15/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335
W02@6'	09/15/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
N02@6'	09/15/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
N03@6'	09/15/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
N04@6'	09/15/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
S02@7'	09/15/2022	7	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
S03@7'	09/15/2022	7	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
S04@3'	09/15/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.000761
B01@14'	09/15/2022	14	0.228	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
B02@14'	09/15/2022	14	0.620	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
B03@14'	09/15/2022	14	0.268	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
E03@3'	10/04/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00648	<0.00200	<0.00200	<0.00380
B04@6'	10/04/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00550	<0.00200	<0.00200	<0.00380
N05@3'	10/04/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00530	<0.00200	<0.00200	<0.00380
S05@3'	10/04/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	0.00456	<0.00200	<0.00200	<0.00380
S06@3'	11/14/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.0101
E04@3'	11/14/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.0101
S07@3'	11/29/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
S08@3'	11/29/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
E05@3'	11/29/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
N06@3'	11/29/2022	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B05@6'	11/29/2022	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
POPE 11-35, SCOTSDALE 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)
Groundwater Protection Values (GPV)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
ABOVEGROUND STORAGE TANK SAMPLES																
AST01@6"-WP	06/16/2022	0.50	0.263	<0.0335	<0.0335	<0.0335	<0.0335	<0.0335	0.073	<0.0335	<0.0335	0.454	<0.0335	1.47	3.22	0.038
AST02@6"-WP	06/16/2022	0.50	0.464	0.0246	0.0269	<0.0335	<0.0335	<0.0335	0.161	<0.0335	<0.0335	0.827	<0.0335	2.37	4.62	0.0869
AST01-B01@4'	08/08/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00067	<0.00067	NA
AST01-B01@4'	08/08/2022	4	NA	NA	<0.00067	NA	NA	NA	NA	NA	<0.00067	NA	NA	<0.00067	<0.00067	NA
PRODUCED WATER VESSEL SAMPLES																
PWV-B01@5'	06/16/2022	5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PWV-S01@1.5'-WP	06/16/2022	1.5	0.001	<0.00067	0.000588	0.000822	0.000568	0.000698	0.0013	<0.00067	0.000772	0.00211	<0.00067	0.00326	0.00737	0.00128
PWVB02@4'	08/08/2022	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWVN01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWVE01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWVS02@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWVW01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COMBINED EXCAVATION SAMPLES																
N01@3'	08/08/2022	3	NA	NA	0.00559	NA	NA	NA	NA	NA	0.00631	NA	NA	<0.00335	<0.00335	NA
E01@3'	08/08/2022	3	NA	NA	0.0251	NA	NA	NA	NA	NA	0.0317	NA	NA	<0.00335	<0.00335	NA
S01@3'	08/08/2022	3	NA	NA	0.0167	NA	NA	NA	NA	NA	0.022	NA	NA	<0.00335	<0.00335	NA
W01@3'	08/08/2022	3	NA	NA	<0.0067	NA	NA	NA	NA	NA	<0.0067	NA	NA	0.0234	0.0385	NA
E02@3'	09/15/2022	3	NA	NA	0.043	NA	NA	NA	NA	NA	NA	<0.00335	NA	<0.00335	<0.00335	NA
W02@6'	09/15/2022	6	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
N02@6'	09/15/2022	6	NA	NA	0.000566	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
N03@6'	09/15/2022	6	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
N04@6'	09/15/2022	6	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
S02@7'	09/15/2022	7	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
S03@7'	09/15/2022	7	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
S04@3'	09/15/2022	3	NA	NA	0.0102	NA	NA	NA	NA	NA	NA	0.00127	NA	0.000387	<0.00067	NA
B01@14'	09/15/2022	14	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	0.000431	NA	<0.00067	<0.00067	NA
B02@14'	09/15/2022	14	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	0.000291	NA	<0.00067	<0.00067	NA
B03@14'	09/15/2022	14	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
E03@3'	10/04/2022	3	NA	NA	0.0117	NA	NA	NA	NA	NA	NA	0.000376	NA	<0.00067	<0.00067	NA
B04@6'	10/04/2022	6	NA	NA	0.000824	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
N05@3'	10/04/2022	3	NA	NA	0.00106	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00067	<0.00067	NA
S05@3'	10/04/2022	3	NA	NA	0.0495	NA	NA	NA	NA	NA	NA	<0.0067	NA	<0.0067	<0.0067	NA
S06@3'	11/14/2022	3	NA	NA	0.138	NA	NA	NA	NA	NA	NA	0.00355	NA	<0.0101	<0.0101	NA
E04@3'	11/14/2022	3	NA	NA	0.0301	NA	NA	NA	NA	NA	NA	<0.00335	NA	<0.0101	<0.0101	NA
S07@3'	11/29/2022	3	NA	NA	0.0142	NA	NA	NA	NA	NA	NA	0.000366	NA	<0.00201	<0.00201	NA
S08@3'	11/29/2022	3	NA	NA	0.00898	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00201	<0.00201	NA
E05@3'	11/29/2022	3	NA	NA	0.0193	NA	NA	NA	NA	NA	NA	<0.00335	NA	<0.0101	<0.0101	NA
N06@3'	11/29/2022	3	NA	NA	0.00185	NA	NA	NA	NA	NA	NA	0.000332	NA	<0.00201	<0.00201	NA
B05@6'	11/29/2022	6	NA	NA	<0.00067	NA	NA	NA	NA	NA	NA	<0.00067	NA	<0.00201	<0.00201	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
POPE 11-35, SCOTTDALE 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)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
ABOVEGROUND STORAGE TANK SAMPLES						
AST01@6"-WP	06/16/2022	0.50	0.441	0.787	7.23	0.140
AST02@6"-WP	06/16/2022	0.50	0.555	0.532	6.61	<0.100
AST01-B01@4'	08/08/2022	4	NA	NA	NA	NA
AST01-B01@4'	08/08/2022	4	NA	NA	NA	NA
PRODUCED WATER VESSEL SAMPLES						
PWV-B01@5'	06/16/2022	5	0.151	0.381	8.32*	<0.100
PWV-S01@1.5'-WP	06/16/2022	1.5	0.219	0.136	8.40*	<0.100
PWVB02@4'	08/08/2022	4	NA	NA	NA	NA
PWVN01@3'	08/08/2022	3	NA	NA	NA	NA
PWVE01@3'	08/08/2022	3	NA	NA	NA	NA
PWVS02@3'	08/08/2022	3	NA	NA	NA	NA
PWVW01@3'	08/08/2022	3	NA	NA	NA	NA
COMBINED EXCAVATION SAMPLES						
N01@3'	08/08/2022	3	NA	NA	NA	NA
E01@3'	08/08/2022	3	NA	NA	NA	NA
S01@3'	08/08/2022	3	NA	NA	NA	NA
W01@3'	08/08/2022	3	NA	NA	NA	NA
E02@3'	09/15/2022	3	NA	NA	NA	NA
W02@6'	09/15/2022	6	NA	NA	NA	NA
N02@6'	09/15/2022	6	NA	NA	NA	NA
N03@6'	09/15/2022	6	NA	NA	NA	NA
N04@6'	09/15/2022	6	NA	NA	NA	NA
S02@7'	09/15/2022	7	NA	NA	NA	NA
S03@7'	09/15/2022	7	NA	NA	NA	NA
S04@3'	09/15/2022	3	NA	NA	NA	NA
B01@14'	09/15/2022	14	NA	NA	NA	NA
B02@14'	09/15/2022	14	NA	NA	NA	NA
B03@14'	09/15/2022	14	NA	NA	NA	NA
E03@3'	10/04/2022	3	NA	NA	NA	NA
B04@6'	10/04/2022	6	NA	NA	NA	NA
N05@3'	10/04/2022	3	NA	NA	NA	NA
S05@3'	10/04/2022	3	NA	NA	NA	NA
S06@3'	11/14/2022	3	NA	NA	NA	NA
E04@3'	11/14/2022	3	NA	NA	NA	NA
S07@3'	11/29/2022	3	NA	NA	NA	NA
S08@3'	11/29/2022	3	NA	NA	NA	NA
E05@3'	11/29/2022	3	NA	NA	NA	NA
N06@3'	11/29/2022	3	NA	NA	NA	NA
B05@6'	11/29/2022	6	NA	NA	NA	NA

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
POPE 11-35, SCOTSDALE 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)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
BACKGROUND SAMPLES						
TB-BG01@6"	06/16/2022	0.50	0.289	0.385	8.37	0.282
Native-BG01@3' (Rem #20764)	1/26/2022	3	0.260	1.83	8.32	<0.199
Native-BG01@6' (Rem #20764)	1/26/2022	6	0.342	4.10	8.41	<0.197
Native-BG02@3' (Rem #20764)	1/26/2022	3	3.05	6.61	7.52	<1.98
Native-BG02@6' (Rem #20764)	1/26/2022	6	5.84	9.12	7.71	<1.98
Native-BG03@3' (Rem #20764)	1/26/2022	3	2.53	6.47	7.86	<0.197
Native-BG03@6' (Rem #20764)	1/26/2022	6	1.18	1.91	7.88	<0.198
Native-BG04@3' (Rem #20764)	1/26/2022	3	0.651	6.67	8.21	0.241
Native-BG04@6' (Rem #20764)	1/26/2022	6	1.50	6.58	7.82	<1.97
Native-BG01@3' (Rem #20764)	6/23/2022	3	0.423	0.710	8.23	0.118
Native-BG01@6' (Rem #20764)	6/23/2022	6	0.188	0.68	8.22	<0.100
Native-BG02@3' (Rem #20764)	6/23/2022	3	0.301	1.84	8.23	0.119
Native-BG02@6' (Rem #20764)	6/23/2022	6	0.860	2.60	8.18	0.220
Native-BG03@3' (Rem #20764)	6/23/2022	3	0.323	4.47	7.86	<0.100
Native-BG03@6' (Rem #20764)	6/23/2022	6	0.240	3.23	7.89	<0.100
Native-BG04@3' (Rem #20764)	6/23/2022	3	1.05	5.77	7.56	<0.100
Native-BG04@6' (Rem #20764)	6/23/2022	6	0.36	2.63	7.91	<0.100

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
POPE 11-35, SCOTSDALE 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)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ABOVEGROUND STORAGE SAMPLES												
AST01@6"-WP	06/16/2022	0.50	4.92	79.7	0.373	<0.513	11	7.59	15.9	0.47	0.038	67.2
AST02@6"-WP	06/16/2022	0.50	2.63*	73	0.455	<2.85	20.2	22.8	6.17	0.497	0.263	87.2
AST01-B01@4'	08/08/2022	4	5.23	NA	NA	NA	NA	NA	NA	0.203	NA	NA
AST01-B01@4'	08/08/2022	4	7.33	NA	0.281	NA	NA	13.9	NA	0.276*	NA	NA
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@5'	06/16/2022	5	0.471*	10.3	<0.25	<0.5	1.75	2	2.2	0.234	0.134	9.03
PWV-S01@1.5'-WP	06/16/2022	1.5	1.7*	45.6	0.125	<0.5	6.78	6.82	4.73	0.458	0.0496	46.2
PWVB02@4'	08/08/2022	4	NA	NA	NA	NA	NA	NA	NA	0.101	NA	NA
PWVN01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	0.185	NA	NA
PWVE01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	0.0992	NA	NA
PWVS02@3'	08/08/2022	3	5.54	NA	NA	NA	NA	NA	NA	0.243	NA	NA
PWVW01@3'	08/08/2022	3	NA	NA	NA	NA	NA	NA	NA	<0.0757	NA	NA
COMBINED EXCAVATION SAMPLES												
N01@3'	08/08/2022	3	3.43	NA	0.460	NA	NA	17.4	NA	0.169	NA	NA
E01@3'	08/08/2022	3	6.01	NA	2.65	NA	NA	75.8	NA	0.303*	NA	NA
S01@3'	08/08/2022	3	4.10	NA	1.65	NA	NA	39.0	NA	0.293*	NA	NA
W01@3'	08/08/2022	3	3.29	NA	0.464	NA	NA	24.4	NA	0.216	NA	NA
E02@3'	09/15/2022	3	6.14	NA	3.27	NA	NA	86.5	NA	0.474	NA	NA
W02@6'	09/15/2022	6	1.65*	NA	<0.0948	NA	NA	<9.48	NA	<0.0948	NA	NA
N02@6'	09/15/2022	6	2.12	NA	0.204	NA	NA	12.4	NA	0.0936	NA	NA
N03@6'	09/15/2022	6	0.687*	NA	<0.0990	NA	NA	<9.90	NA	<0.0990	NA	NA
N04@6'	09/15/2022	6	0.872*	NA	<0.0883	NA	NA	<8.83	NA	<0.0883	NA	NA
S02@7'	09/15/2022	7	0.848*	NA	<0.0974	NA	NA	<9.74	NA	<0.0974	NA	NA
S03@7'	09/15/2022	7	16.2	NA	0.128	NA	NA	<9.99	NA	0.188	NA	NA
S04@3'	09/15/2022	3	2.08*	NA	0.202	NA	NA	18.2	NA	<0.0988	NA	NA
B01@14'	09/15/2022	14	0.397	NA	<0.0836	NA	NA	<8.36	NA	<0.0836	NA	NA
B02@14'	09/15/2022	14	0.834	NA	0.109	NA	NA	<8.82	NA	<0.0882	NA	NA
B03@14'	09/15/2022	14	1.14	NA	<0.0908	NA	NA	<9.08	NA	<0.0908	NA	NA
E03@3'	10/04/2022	3	4.24	NA	0.802	NA	NA	30.2	NA	0.288*	NA	NA
B04@6'	10/04/2022	6	1.89	NA	0.217	NA	NA	9.35	NA	<0.0906	NA	NA
N05@3'	10/04/2022	3	2.80	NA	0.237	NA	NA	14.0	NA	0.132	NA	NA
S05@3'	10/04/2022	3	8.09	NA	2.38	NA	NA	103	NA	0.430*	NA	NA
S06@3'	11/14/2022	3	25.9	NA	0.655	NA	NA	173	NA	0.439*	NA	NA
E04@3'	11/14/2022	3	5.14	NA	1.60	NA	NA	53.1	NA	0.239	NA	NA
S07@3'	11/29/2022	3	7.10	NA	0.953	NA	NA	64.7	NA	0.236	NA	NA
S08@3'	11/29/2022	3	2.74	NA	0.307	NA	NA	24.0	NA	<0.0943	NA	NA
E05@3'	11/29/2022	3	4.42	NA	0.947	NA	NA	37.1	NA	0.247	NA	NA
N06@3'	11/29/2022	3	2.55	NA	0.215	NA	NA	14.2	NA	0.107	NA	NA
B05@6'	11/29/2022	6	1.09*	NA	<0.0923	NA	NA	<9.23	NA	<0.0923	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
POPE 11-35, SCOTSDALE 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)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BACKGROUND SAMPLES												
TB-BG01@6"	06/16/2022	0.50	3.03	85.9	0.193	<0.514	11.2	11.4	7.30	0.112	0.0933	47.0
Native-BG01@3' (Rem #20764)	1/26/2022	3	0.54	22.9	0.0338	<0.5	1.51	1.86	1.11	0.184	0.0124	7.29
Native-BG01@6' (Rem #20764)	1/26/2022	6	0.41	33.8	0.0576	<1.02	2.87	4.51	2.82	0.321	0.0257	18.8
Native-BG02@3' (Rem #20764)	1/26/2022	3	0.906	105	0.102	<2.57	9.28	9.15	7.88	0.422	0.0495	49.8
Native-BG02@6' (Rem #20764)	1/26/2022	6	0.863	193	0.0993	<2.55	10.1	10.8	9.8	0.437	0.0819	62.1
Native-BG03@3' (Rem #20764)	1/26/2022	3	0.676	32.1	0.0404	<2.54	3.05	4.06	2.66	0.325	0.0185	17.4
Native-BG03@6' (Rem #20764)	1/26/2022	6	1.95	50.9	0.0806	<1.04	6.6	7.15	5.97	0.384	0.045	28.3
Native-BG04@3' (Rem #20764)	1/26/2022	3	0.184	34.4	0.0696	<1.03	3.42	3.05	2.2	0.196	0.015	16.3
Native-BG04@6' (Rem #20764)	1/26/2022	6	0.913	77	0.11	<5	7.85	8.59	5.98	0.453	0.038	48.8
Native-BG01@3' (Rem #20764)	6/23/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG01@6' (Rem #20764)	6/23/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@3' (Rem #20764)	6/23/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG02@6' (Rem #20764)	6/23/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@3' (Rem #20764)	6/23/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG03@6' (Rem #20764)	6/23/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG04@3' (Rem #20764)	6/23/2022	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Native-BG04@6' (Rem #20764)	6/23/2022	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
POPE 11-35, SCOTTDALE O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

RRO - Residual Range Organics

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

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

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level and background

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
PLATTE 11-35, SCOTSDALE O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	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)
COGCC Allowable Levels		5	560	700	1400	140	67	67	NA	250,000	250,000	
GW01	9/15/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	804,000	217,000	449,000	13.0

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

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

µg/L - micrograms per liter

< - less than laboratory reporting limit

Excavation groundwater depth is approximate



July 08, 2022

WSP USA

Rob Rebel

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Pope 11-35, Scottsdale OSA FA **Project Number - 31403177.022.74**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale OSA FA received by Origins Laboratory, Inc. June 16, 2022. This project is associated with Origins project number Y206409-01.

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

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

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

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

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

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



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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6"-WP	Y206409-01	Soil	June 16, 2022 13:15	06/16/2022 15:49
AST02@6"-WP	Y206409-02	Soil	June 16, 2022 13:30	06/16/2022 15:49
PWV-B01@5'	Y206409-03	Soil	June 16, 2022 14:02	06/16/2022 15:49
PWV-S01@1.5'-WP	Y206409-04	Soil	June 16, 2022 14:05	06/16/2022 15:49
TB-BG01@6"	Y206409-05	Soil	June 16, 2022 14:28	06/16/2022 15:49

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1206409

Client: WSP

Client Project ID: Pope 11-35, Scottsdale

Checklist Completed by: KH

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

Date/time completed: 01/10/12

Airbill #: 11A

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

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

Thermometer ID: TC-01

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C ^{1,2} ?	<u>/</u>			
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Were all samples received intact ^{1,2} ?	<u>/</u>			
Was adequate sample volume provided ^{1,2} ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{1,2} ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely ^{1,2} ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ^{1,2} ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ^{1,2} ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded ^{1,2} ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
Are samples preserved that require preservation and was it checked ^{1,2} ? (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)			<u>/</u>	
Additional Comments (if any)				

^{1,2}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.

Kelly H
Reviewed by (Project Manager)

01/10/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

AST01@6"-WP
6/16/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.140	0.100	mg/L	1	B2F1711	06/17/2022	06/21/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	10600	250	mg/kg	10	B2F1612	06/16/2022	06/17/2022
Residual Range Organics (C28-C40)	4020	100	"	1	"	"	06/16/2022

Surrogate: o-Terphenyl	75.8 %	50-150	"	"	06/17/2022	06-01
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	76.0	0.500	mg/kg	250	B2F1621	06/16/2022	06/17/2022
1,3,5-Trimethylbenzene	41.7	0.500	"	"	"	"	"
Benzene	1.31	0.500	"	"	"	"	"
Ethylbenzene	7.97	0.500	"	"	"	"	"
Toluene	36.1	0.500	"	"	"	"	"
Xylenes, total	166	0.500	"	"	"	"	"
Gasoline Range Hydrocarbons	903	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	113 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

AST01@6"-WP
6/16/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.27	0.499	meq/L	10	[CALC]	06/20/2022	06/21/2022
Magnesium	0.831	0.823	"	"	"	"	"
Sodium	0.979	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	1.47	0.0182	0.0335	mg/Kg	50	L623006	06/23/2022	06/24/2022
2-Methylnaphthalene	3.22	0.0323	0.0335	"	"	"	"	"
Acenaphthene	0.263	0.0152	0.0335	"	"	"	"	"
Anthracene	ND	0.0167	0.0335	"	"	"	"	"
Benzo(a)anthracene	ND	0.0247	0.0335	"	"	"	"	"
Benzo(a)pyrene	ND	0.0234	0.0335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0293	0.0335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.0219	0.0335	"	"	"	"	"
Chrysene	0.073	0.0312	0.0335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0307	0.0335	"	"	"	"	"
Fluoranthene	ND	0.0197	0.0335	"	"	"	"	"
Fluorene	0.454	0.0143	0.0335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0314	0.0335	"	"	"	"	"
Naphthalene	0.674	0.0242	0.0335	"	"	"	"	"
Pyrene	0.038	0.0322	0.0335	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	73.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	85.9 %		33-122			"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

AST01@6"-WP
6/16/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206409-01 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	72.7 %	29-110	L6230 06	06/23/2022	06/24/2022
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pH in Soil by 9045D

pH	7.23	pH Units	1	B2F2008	06/20/2022	06/21/2022
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SAR by 20B Saturated Paste

SAR	0.787	SAR	1	B2F2007	06/20/2022	06/21/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.441	0.00500	mmhos/cm	1	B2F2008	06/20/2022	06/21/2022
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Total Metals by 6020B

Arsenic	4.92	0.0855	0.25	mg/Kg	5	L622919	06/22/2022	06/26/2022
Barium	79.7	0.042	0.25	"	"	"	"	"
Cadmium	0.373	0.0259	0.25	"	"	"	"	"
Copper	11	0.0806	0.25	"	"	"	"	"
Lead	7.59	0.031	0.25	"	"	"	"	"
Nickel	15.9	0.0633	0.25	"	"	"	"	"
Selenium	0.47	0.103	0.25	"	"	"	"	"
Silver	0.038	0.0067	0.25	"	"	"	"	"
Zinc	67.2	0.534	2.5	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

AST01@6"-WP

6/16/2022 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y206409-01 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L623140	06/16/2022	06/23/2022
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

AST02@6"-WP
6/16/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F1711	06/17/2022	06/21/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	7570	250	mg/kg	10	B2F1612	06/16/2022	06/17/2022
Residual Range Organics (C28-C40)	3470	100	"	1	"	"	06/16/2022

Surrogate: o-Terphenyl	71.1 %	50-150			"	"	06/17/2022	01
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	30.1	0.500	mg/kg	250	B2F1621	06/16/2022	06/17/2022	
1,3,5-Trimethylbenzene	9.63	0.0500	"	25	"	"	06/17/2022	
Benzene	ND	0.0500	"	"	"	"	"	R-05, U
Ethylbenzene	ND	0.0500	"	"	"	"	"	R-05, U
Toluene	0.920	0.0500	"	"	"	"	"	
Xylenes, total	18.5	0.0500	"	"	"	"	"	
Gasoline Range Hydrocarbons	303	5.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	111 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	86.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

AST02@6"-WP
6/16/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.17	0.499	meq/L	10	[CALC]	06/20/2022	06/21/2022
Magnesium	0.971	0.823	"	"	"	"	"
Sodium	0.766	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	2.37	0.0182	0.0335	mg/Kg	50	L623006	06/23/2022	06/24/2022	
2-Methylnaphthalene	4.62	0.0323	0.0335	"	"	"	"	"	
Acenaphthene	0.464	0.0152	0.0335	"	"	"	"	"	
Anthracene	0.0246	0.0167	0.0335	"	"	"	"	"	J
Benzo(a)anthracene	0.0269	0.0247	0.0335	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.0234	0.0335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0293	0.0335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0219	0.0335	"	"	"	"	"	
Chrysene	0.161	0.0312	0.0335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0307	0.0335	"	"	"	"	"	
Fluoranthene	ND	0.0197	0.0335	"	"	"	"	"	
Fluorene	0.827	0.0143	0.0335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.0314	0.0335	"	"	"	"	"	
Naphthalene	0.957	0.0242	0.0335	"	"	"	"	"	
Pyrene	0.0869	0.0322	0.0335	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	71.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84.8 %		33-122			"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

AST02@6"-WP
6/16/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206409-02 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	80.3 %	29-110		L6230 06	06/23/2022	06/24/2022
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pH in Soil by 9045D

pH	6.61		pH Units	1	B2F2008	06/20/2022	06/21/2022
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SAR by 20B Saturated Paste

SAR	0.532		SAR	1	B2F2007	06/20/2022	06/21/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.555	0.00500	mmhos/cm	1	B2F2008	06/20/2022	06/21/2022
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Total Metals by 6020B

Arsenic	2.63	0.0855	0.25	mg/Kg	5	L622919	06/22/2022	06/26/2022
Barium	73	0.042	0.25	"	"	"	"	"
Cadmium	0.455	0.0259	0.25	"	"	"	"	"
Copper	20.2	0.0806	0.25	"	"	"	"	"
Lead	22.8	0.031	0.25	"	"	"	"	"
Nickel	6.17	0.0633	0.25	"	"	"	"	"
Selenium	0.497	0.103	0.25	"	"	"	"	"
Silver	0.263	0.0067	0.25	"	"	"	"	"
Zinc	87.2	0.534	2.5	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

AST02@6"-WP

6/16/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y206409-02 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	1.39	2.85	mg/Kg	5	L623140	06/16/2022	06/23/2022
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-B01@5'
6/16/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F1711	06/17/2022	06/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F1612	06/16/2022	06/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F1621	06/16/2022	06/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-B01@5'
6/16/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	109 %	70-130	B2F16 21	06/16/2022	06/17/2022
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.629	0.499	meq/L	10	[CALC]	06/20/2022	06/21/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L623006	06/23/2022	06/24/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-B01@5'
6/16/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206409-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L623006	06/23/2022	06/24/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.6 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	83.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	74.2 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.32			pH Units	1	B2F2008	06/20/2022	06/21/2022
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SAR by 20B Saturated Paste

SAR	0.381			SAR	1	B2F2007	06/20/2022	06/21/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.151		0.00500	mmhos/cm	1	B2F2008	06/20/2022	06/21/2022
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Total Metals by 6020B

Arsenic	0.471	0.0855	0.25	mg/Kg	5	L622919	06/22/2022	06/26/2022
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-B01@5'

6/16/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y206409-03 (Soil)

Total Metals by 6020B

Barium	10.3	0.042	0.25	mg/Kg	5	L622919	06/22/2022	06/26/2022	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	1.75	0.0806	0.25	"	"	"	"	"	
Lead	2	0.031	0.25	"	"	"	"	"	
Nickel	2.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.234	0.103	0.25	"	"	"	"	"	J
Silver	0.134	0.0067	0.25	"	"	"	"	"	J
Zinc	9.03	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L623140	06/16/2022	06/23/2022	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-S01@1.5'-WP
6/16/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B2F1711	06/17/2022	06/21/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2F1612	06/16/2022	06/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.1 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0250	0.00200	mg/kg	1	B2F1621	06/16/2022	06/17/2022	
1,3,5-Trimethylbenzene	0.0117	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00560	0.00200	"	"	"	"	"	
Xylenes, total	0.0364	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	105 %	70-130			"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-S01@1.5'-WP
6/16/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %	70-130	B2F16 21	06/16/2022	06/17/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.35	0.499	meq/L	10	[CALC]	06/20/2022	06/21/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00326	0.000364	0.00067	mg/Kg	1	L623006	06/23/2022	06/24/2022
2-Methylnaphthalene	0.00737	0.000645	0.00067	"	"	"	"	"
Acenaphthene	0.001	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000588	0.000493	0.00067	"	"	"	"	J
Benzo(a)pyrene	0.000698	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000822	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000568	0.000437	0.00067	"	"	"	"	J
Chrysene	0.0013	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000772	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00211	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-S01@1.5'-WP
6/16/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206409-04 (Soil)

PAH by 8270D SIM

Naphthalene	0.000984	0.000484	0.00067	mg/Kg	1	L623006	06/23/2022	06/24/2022	
Pyrene	0.00128	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B2F2008	06/20/2022	06/21/2022	
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SAR by 20B Saturated Paste

SAR	0.136			SAR	1	B2F2007	06/20/2022	06/21/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.219		0.00500	mmhos/cm	1	B2F2008	06/20/2022	06/21/2022	
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Total Metals by 6020B

Arsenic	1.7	0.0855	0.25	mg/Kg	5	L622919	06/22/2022	06/26/2022	
Barium	45.6	0.042	0.25	"	"	"	"	"	
Cadmium	0.125	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

PWV-S01@1.5'-WP

6/16/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y206409-04 (Soil)

Total Metals by 6020B

Copper	6.78	0.0806	0.25	mg/Kg	5	L622919	06/22/2022	06/26/2022	
Lead	6.82	0.031	0.25	"	"	"	"	"	
Nickel	4.73	0.0633	0.25	"	"	"	"	"	
Selenium	0.458	0.103	0.25	"	"	"	"	"	
Silver	0.0496	0.0067	0.25	"	"	"	"	"	J
Zinc	46.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L623140	06/16/2022	06/23/2022	
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Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

TB-BG01@6"

6/16/2022 2:28:00PM

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

Y206409-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.282	0.100	mg/L	1	B2F1711	06/17/2022	06/21/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.64	0.499	meq/L	10	[CALC]	06/20/2022	06/21/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.37		pH Units	1	B2F2008	06/20/2022	06/21/2022
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SAR by 20B Saturated Paste

SAR	0.385		SAR	1	B2F2007	06/20/2022	06/21/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.289	0.00500	mmhos/cm	1	B2F2008	06/20/2022	06/21/2022
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Table 915 metals by EPA 6020B

Arsenic	3.03	0.00100	mg/kg	1	B2F3019	06/30/2022	07/08/2022
Barium	85.9	0.0500	"	"	"	"	"
Cadmium	0.193	0.00100	"	"	"	"	"
Copper	11.2	0.0100	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

TB-BG01@6"
6/16/2022 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206409-05 (Soil)

Table 915 metals by EPA 6020B

Lead	11.4	0.00100	mg/kg	1	B2F3019	06/30/2022	07/08/2022
Nickel	7.30	0.00100	"	"	"	"	"
Selenium	0.112	0.00100	"	"	"	"	"
Silver	0.0933	0.00100	"	"	"	"	"
Zinc	47.0	0.100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L625427	06/16/2022	07/07/2022
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1612 - EPA 3580										
Blank (B2F1612-BLK1)					Prepared: 06/16/2022 Analyzed: 06/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	14		"	24.9		57.6	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1612 - EPA 3580

LCS (B2F1612-BS1)

Prepared: 06/16/2022 Analyzed: 06/16/2022

Diesel (C10-C28)	796	50.0	mg/kg	1000		79.6	70-130			
Residual Range Organics (C28-C40)	933	200	"	1000		93.3	70-130			
Surrogate: o-Terphenyl	36		"	49.8		72.5	50-150			

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Jordan A. Bynon, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1612 - EPA 3580

Matrix Spike (B2F1612-MS1)		Source: Y206407-01			Prepared: 06/16/2022 Analyzed: 06/16/2022					
Diesel (C10-C28)	989	50.0	mg/kg	1000	ND	98.9	70-130			
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

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Jordan A. Bynon, Project Manager

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1612 - EPA 3580

Matrix Spike Dup (B2F1612-MSD1)		Source: Y206407-01			Prepared: 06/16/2022 Analyzed: 06/16/2022					
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130	1.97	35	
Residual Range Organics (C28-C40)	901	200	"	1000	ND	90.1	70-130	2.16	35	
Surrogate: o-Terphenyl	48		"	49.8		96.0	50-150			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1621 - EPA 5030 (soil)										
Blank (B2F1621-BLK1)					Prepared: 06/16/2022 Analyzed: 06/16/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1621 - EPA 5030 (soil)										
LCS (B2F1621-BS1)					Prepared: 06/16/2022 Analyzed: 06/16/2022					
1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100		118	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.0920	0.00200	"	0.100		92.0	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.0989	0.0100	"	0.100		98.9	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.226	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1621 - EPA 5030 (soil)										
Matrix Spike (B2F1621-MS1)		Source: Y206407-01			Prepared: 06/16/2022 Analyzed: 06/16/2022					
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.110	0.0100	"	0.100	0.00208	108	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	0.000500	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

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 B2F1621 - EPA 5030 (soil)

Matrix Spike Dup (B2F1621-MSD1)		Source: Y206407-01			Prepared: 06/16/2022 Analyzed: 06/16/2022					
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130	0.682	20	
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	0.572	20	
Benzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	0.257	20	
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	2.86	20	
Naphthalene	0.108	0.0100	"	0.100	0.00208	106	70-130	1.82	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	4.33	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	1.04	20	
m,p-Xylene	0.218	0.00400	"	0.200	0.000500	109	70-130	2.61	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

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 SM 3500 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 B2F3019 - Default Prep Metals

Blank (B2F3019-BLK1)

Prepared: 06/30/2022 Analyzed: 07/08/2022

Arsenic	ND	0.00100	mg/kg							U
Barium	ND	0.0500	"							U
Cadmium	ND	0.00100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.00100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.100	"							U

LCS (B2F3019-BS1)

Prepared: 06/30/2022 Analyzed: 07/08/2022

Arsenic	0.0542	0.00100	mg/kg	0.0500		108	80-120
Barium	5.32	0.0500	"	5.00		106	80-120
Cadmium	0.0525	0.00100	"	0.0500		105	80-120
Copper	0.541	0.0100	"	0.500		108	80-120
Lead	0.0518	0.00100	"	0.0500		104	80-120
Nickel	0.0540	0.00100	"	0.0500		108	80-120
Selenium	0.0453	0.00100	"	0.0500		90.5	80-120
Silver	0.0538	0.00100	"	0.0500		108	80-120
Zinc	0.529	0.100	"	0.500		106	80-120

Matrix Spike (B2F3019-MS1)

Source: Y206409-05

Prepared: 06/30/2022 Analyzed: 07/08/2022

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

Metals by SM 3500 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 B2F3019 - Default Prep Metals

Matrix Spike (B2F3019-MS1)		Source: Y206409-05			Prepared: 06/30/2022 Analyzed: 07/08/2022					
Arsenic	11.0	0.00100	mg/kg	9.51	3.03	84.2	75-125			
Barium	1070	0.0500	"	951	85.9	103	75-125			
Cadmium	10.2	0.00100	"	9.51	0.193	105	75-125			
Copper	108	0.0100	"	95.1	11.2	102	75-125			
Lead	21.3	0.00100	"	9.51	11.4	104	75-125			
Nickel	15.8	0.00100	"	9.51	7.30	89.5	75-125			
Selenium	8.09	0.00100	"	9.51	0.112	83.9	75-125			
Silver	10.1	0.00100	"	9.51	0.0933	106	75-125			
Zinc	135	0.100	"	95.1	47.0	92.3	75-125			
Matrix Spike Dup (B2F3019-MSD1)		Source: Y206409-05			Prepared: 06/30/2022 Analyzed: 07/08/2022					
Arsenic	11.9	0.00100	mg/kg	9.98	3.03	88.4	75-125	7.18	20	
Barium	1130	0.0500	"	998	85.9	104	75-125	5.63	20	
Cadmium	10.4	0.00100	"	9.98	0.193	103	75-125	2.65	20	
Copper	113	0.0100	"	99.8	11.2	102	75-125	4.42	20	
Lead	20.4	0.00100	"	9.98	11.4	90.4	75-125	4.07	20	
Nickel	18.4	0.00100	"	9.98	7.30	111	75-125	14.9	20	
Selenium	8.68	0.00100	"	9.98	0.112	85.9	75-125	7.01	20	
Silver	10.4	0.00100	"	9.98	0.0933	104	75-125	2.94	20	
Zinc	145	0.100	"	99.8	47.0	98.5	75-125	7.53	20	

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2008 - NO PREP

Blank (B2F2008-BLK1)

Prepared: 06/20/2022 Analyzed: 06/21/2022

pH	0.00		pH Units
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm

Duplicate (B2F2008-DUP1)

Source: Y206404-05

Prepared: 06/20/2022 Analyzed: 06/21/2022

pH	8.30		pH Units	8.06		2.93	25
Specific Conductance (EC)	0.608	0.00500	mmhos/cm	0.696		13.5	25

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L625427 -										
DUP (L 87535-DUP)		Source: 87535			Prepared: Analyzed: 07/07/2022					
Chromium, Hexavalent	ND	0.502	mg/Kg		<1.03	-		0	20	
MS (L 87535-MS)		Source: 87535			Prepared: Analyzed: 07/07/2022					
Chromium, Hexavalent	ND	0.488	mg/Kg	7.84	<0.488	0	75-125			*
MSD (L 87535-MSD)		Source: 87535			Prepared: Analyzed: 07/07/2022					
Chromium, Hexavalent	379	24.4	mg/Kg	652	<24.4	58	75-125			*
LCS (LCS)					Prepared: Analyzed: 07/07/2022					
Chromium, Hexavalent	6.57	0.244	mg/Kg	8		82	75-125			
LRB (LRB)					Prepared: Analyzed: 07/07/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L623006 - 3550B

MSD (L 89124-MSD-L623006)		Source: Y206409-03			Prepared: 06/23/2022 Analyzed: 06/24/2022					
Acenaphthene	0.0965	0.000304	mg/Kg	0.166	89124	58.1	30-130	2.6	30	
1-Methylnaphthalene	0.0904	0.000364	"	0.166	89124	54.4	30-130	0.5	30	
2-Methylnaphthalene	0.0896	0.000645	"	0.166	89124	53.9	30-130	0.7	30	
Fluoranthene	0.1	0.000394	"	0.166	89124	60.2	30-130	9.5	30	
Pyrene	0.0998	0.000643	"	0.166	89124	60.1	30-130	8.8	30	
Naphthalene	0.0873	0.000484	"	0.166	89124	52.5	30-130	0.9	30	
Fluorene	0.0997	0.000286	"	0.166	89124	60	30-130	4.2	30	
Dibenz(a,h)anthracene	0.1	0.000614	"	0.166	89124	60.2	30-130	8.6	30	
Chrysene	0.104	0.000624	"	0.166	89124	62.6	30-130	10	30	
Benzo(k)fluoranthene	0.0887	0.000437	"	0.166	89124	53.4	30-130	10.8	30	
Benzo(a)anthracene	0.111	0.000493	"	0.166	89124	66.8	30-130	6.1	30	
Indeno(1,2,3-cd)pyrene	0.0956	0.000627	"	0.166	89124	57.5	30-130	9.3	30	
Benzo(a)pyrene	0.108	0.000468	"	0.166	89124	65	30-130	10.5	30	
Benzo(b)fluoranthene	0.0928	0.000585	"	0.166	89124	55.9	30-130	3.4	30	
Anthracene	0.0988	0.000334	"	0.166	89124	59.5	30-130	8.8	30	
Surrogate: 4-Terphenyl-d14	70.9		"	0.331	274	70.9	33-122			
Surrogate: Nitrobenzene-d5	69.7		"	0.331	244	69.7	29-110			
Surrogate: 2-Fluorobiphenyl	62.8		"	0.331	229	62.8	33-115			

MS (L 89124-MS-L623006)		Source: Y206409-03			Prepared: 06/23/2022 Analyzed: 06/24/2022					
Benzo(b)fluoranthene	0.0961	0.000585	mg/Kg	0.167	89124	57.5	30-130			
Naphthalene	0.0881	0.000484	"	0.167	89124	52.7	30-130			
Pyrene	0.109	0.000643	"	0.167	89124	65.2	30-130			
Fluorene	0.104	0.000286	"	0.167	89124	62.2	30-130			
Fluoranthene	0.11	0.000394	"	0.167	89124	65.8	30-130			
Dibenz(a,h)anthracene	0.109	0.000614	"	0.167	89124	65.2	30-130			
Chrysene	0.115	0.000624	"	0.167	89124	68.8	30-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L623006 - 3550B

MS (L 89124-MS-L623006)		Source: Y206409-03			Prepared: 06/23/2022 Analyzed: 06/24/2022					
Benzo(k)fluoranthene	0.0989	0.000437	mg/Kg	0.167	89124	59.2	30-130			
Indeno(1,2,3-cd)pyrene	0.105	0.000627	"	0.167	89124	62.8	30-130			
Benzo(a)anthracene	0.118	0.000493	"	0.167	89124	70.6	30-130			
Anthracene	0.108	0.000334	"	0.167	89124	64.6	30-130			
Acenaphthene	0.0991	0.000304	"	0.167	89124	59.3	30-130			
2-Methylnaphthalene	0.0903	0.000645	"	0.167	89124	54	30-130			
1-Methylnaphthalene	0.0909	0.000364	"	0.167	89124	54.4	30-130			
Benzo(a)pyrene	0.12	0.000468	"	0.167	89124	71.8	30-130			
Surrogate: Nitrobenzene-d5	71.1		"	0.333	244	71.1	29-110			
Surrogate: 4-Terphenyl-d14	77.7		"	0.333	274	77.7	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333	229	63	33-115			

LCS (LCS-L623006)		Prepared: 06/23/2022 Analyzed: 06/24/2022								
Fluoranthene	0.0831	0.000394	mg/Kg	0.167		49.7	30-130			
Chrysene	0.087	0.000624	"	0.167		52	30-130			
Benzo(k)fluoranthene	0.0761	0.000437	"	0.167		45.5	30-130			
Benzo(b)fluoranthene	0.0789	0.000585	"	0.167		47.2	30-130			
Benzo(a)pyrene	0.089	0.000468	"	0.167		53.2	30-130			
Benzo(a)anthracene	0.0897	0.000493	"	0.167		53.7	30-130			
1-Methylnaphthalene	0.0679	0.000364	"	0.167		40.6	30-130			
2-Methylnaphthalene	0.0673	0.000645	"	0.167		40.2	30-130			
Fluorene	0.076	0.000286	"	0.167		45.5	30-130			
Acenaphthene	0.0736	0.000304	"	0.167		44	30-130			
Indeno(1,2,3-cd)pyrene	0.0831	0.000627	"	0.167		49.7	30-130			
Naphthalene	0.0654	0.000484	"	0.167		39.1	30-130			
Pyrene	0.0824	0.000643	"	0.167		49.3	30-130			
Anthracene	0.0798	0.000334	"	0.167		47.7	30-130			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L623006 - 3550B

LCS (LCS-L623006)

Prepared: 06/23/2022 Analyzed: 06/24/2022

Dibenz(a,h)anthracene	0.0832	0.000614	mg/Kg	0.167		49.8	30-130			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333		73.2	33-122			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.333		60.3	33-115			
Surrogate: Nitrobenzene-d5	65.4		"	0.333		65.4	29-110			

LRB (LRB-L623006)

Prepared: 06/23/2022 Analyzed: 06/24/2022

Pyrene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.2		"	0.333		58.2	29-110			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333		69.3	33-122			
Surrogate: 2-Fluorobiphenyl	54.6		"	0.333		54.6	33-115			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622919 - 3050B

MSD (L 89151-MSD-L622919)			Source: 89151			Prepared: 06/22/2022 Analyzed: 06/26/2022				
Silver	0.501	0.0067	mg/Kg	0.476	0.0531	94	75-125	1.9	80	
Zinc	84.4	0.534	"	23.8	70.6	58	75-125	9.5	80	*
Arsenic	7.38	0.0855	"	2.38	5.36	85	75-125	12.9	80	
Barium	63.1	0.042	"	4.76	66.6	NR	75-125	7.3	80	*
Cadmium	0.642	0.0259	"	0.476	1.7	NR	75-125	11.3	80	*
Copper	18.8	0.0806	"	2.38	15.5	139	75-125	2.6	80	*
Lead	17.8	0.031	"	2.38	13.1	197	75-125	6.9	80	*
Nickel	20.6	0.0633	"	2.38	16.1	189	75-125	4.2	80	*
Selenium	4.81	0.103	"	4.76	0.545	90	75-125	13.2	80	
MS (L 89151-MS-L622919)			Source: 89151			Prepared: 06/22/2022 Analyzed: 06/26/2022				
Zinc	92.9	0.534	mg/Kg	24.6	70.6	91	75-125			
Barium	67.9	0.042	"	4.92	66.6	26	75-125			*
Arsenic	8.4	0.0855	"	2.46	5.36	124	75-125			
Cadmium	0.719	0.0259	"	0.492	1.7	NR	75-125			*
Copper	18.3	0.0806	"	2.46	15.5	114	75-125			
Lead	16.6	0.031	"	2.46	13.1	142	75-125			*
Nickel	21.5	0.0633	"	2.46	16.1	219	75-125			*
Selenium	5.49	0.103	"	4.92	0.545	100	75-125			
Silver	0.511	0.0067	"	0.492	0.0531	93	75-125			
LCS (LCS-L622919)			Prepared: 06/22/2022 Analyzed: 06/28/2022							
Arsenic	2.57	0.0855	mg/Kg	2.5		103	80-120			
Zinc	25.5	0.534	"	25		102	80-120			
Barium	4.68	0.042	"	5		94	80-120			
Cadmium	0.454	0.0259	"	0.5		91	80-120			
Copper	2.48	0.0806	"	2.5		99	80-120			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622919 - 3050B

LCS (LCS-L622919)

Prepared: 06/22/2022 Analyzed: 06/26/2022

Lead	2.36	0.031	mg/Kg	2.5		94	80-120			
Nickel	2.49	0.0633	"	2.5		100	80-120			
Silver	0.487	0.0067	"	0.5		97	80-120			
Selenium	4.9	0.103	"	5		98	80-120			

LRB (LRB-L622919)

Prepared: 06/22/2022 Analyzed: 06/26/2022

Barium	0.0468	0.25	mg/Kg				-			J
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Rob Rebel
Project Number: 31403177.022.74
Project: KMG - Pope 11-35, Scottsdale OSA FA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L623140 -										
DUP (L 89122-DUP)		Source: Y206409-01			Prepared: Analyzed: 06/23/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		89122	-		0	20	
MS (L 89122-MS)		Source: Y206409-01			Prepared: Analyzed: 06/23/2022					
Chromium, Hexavalent	6.54	0.244	mg/Kg	8.02	89122	82	75-125			
MSD (L 89122-MSD)		Source: Y206409-01			Prepared: Analyzed: 06/23/2022					
Chromium, Hexavalent	583	24.4	mg/Kg	627	89122	93	75-125			
LCS (LCS)					Prepared: Analyzed: 06/23/2022					
Chromium, Hexavalent	7.7	0.244	mg/Kg	8		96	75-125			
LRB (LRB)					Prepared: Analyzed: 06/23/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Rob Rebel

Project Number: 31403177.022.74

Project: KMG - Pope 11-35, Scottsdale OSA FA

Notes and Definitions

U Sample is Non-Detect.

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.

Jordan A. Bynon, Project Manager

August 29, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Pope 11-35, Scottsdale O SA Facility **Project Number - 09A1417113**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale O SA Facility received by Origins Laboratory, Inc. August 08, 2022. This project is associated with Origins project number Y208185-01.

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWVB02@4'	Y208185-01	Soil	August 8, 2022 13:30	08/08/2022 15:05
PWVN01@3'	Y208185-02	Soil	August 8, 2022 12:13	08/08/2022 15:05
PWVE01@3'	Y208185-03	Soil	August 8, 2022 12:20	08/08/2022 15:05
PWVS02@3'	Y208185-04	Soil	August 8, 2022 12:22	08/08/2022 15:05
PWVW01@3'	Y208185-05	Soil	August 8, 2022 12:25	08/08/2022 15:05
AST01-B01@4'	Y208185-06	Soil	August 8, 2022 12:27	08/08/2022 15:05
AST02-B01@4'	Y208185-07	Soil	August 8, 2022 12:30	08/08/2022 15:05
N01@3'	Y208185-08	Soil	August 8, 2022 12:32	08/08/2022 15:05
E01@3'	Y208185-09	Soil	August 8, 2022 12:35	08/08/2022 15:05
S01@3'	Y208185-10	Soil	August 8, 2022 12:37	08/08/2022 15:05
W01@3'	Y208185-11	Soil	August 8, 2022 13:17	08/08/2022 15:05

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA Facility

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: 4208185

Checklist Completed by: JB

Date/time completed: 8/8/2022

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

Cooler Number/Temperature: 1 / 4.8 °C 1 °C 1 °C (Describe)

Thermometer ID: T004

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

Client: Ensolum/Oru

Client Project ID: Pope 11-35

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

Airbill #: n/a

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

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 8/8/2022

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

PWVB02@4'

8/8/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.0 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Table 915 metals by EPA 6020B

Selenium	0.101	0.0991	mg/kg	5	B2H0921	08/09/2022	08/11/2022
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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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

PWVN01@3'
8/8/2022 12:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130	"	"	"
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130	"	"	"

Table 915 metals by EPA 6020B

Selenium	0.185	0.0878	mg/kg	5	B2H0921	08/09/2022	08/11/2022
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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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

PWVE01@3'
8/8/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	"	"	"

Table 915 metals by EPA 6020B

Selenium	0.0992	0.0953	mg/kg	5	B2H0921	08/09/2022	08/11/2022
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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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

PWVS02@3'
8/8/2022 12:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	5.54	0.0931	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Selenium	0.243	0.0931	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

PWVW01@3'
8/8/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130	"	"	"
Surrogate: Toluene-d8	96.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.2 %	70-130	"	"	"

Table 915 metals by EPA 6020B

Selenium	ND	0.0757	mg/kg	5	B2H0921	08/09/2022	08/11/2022
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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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

AST01-B01@4'
8/8/2022 12:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0824	08/08/2022	08/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130	"	"	"

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

AST01-B01@4'
8/8/2022 12:27:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208185-06 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L632762	08/18/2022	08/18/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	73.4 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"

Table 915 metals by EPA 6020B

Arsenic	5.23	0.0807	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Selenium	0.203	0.0807	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

AST02-B01@4'
8/8/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	38.2		25.0	mg/kg	1	B2H0824	08/08/2022	08/08/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.5 % 70-130 " " "
Surrogate: Toluene-d8 97.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L632762	08/18/2022	08/18/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

AST02-B01@4'
8/8/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208185-07 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.000493	0.00067	mg/Kg	1	L632762	08/18/2022	08/18/2022
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	51.4 %		29-110			"	"	"

Table 915 metals by EPA 6020B

Arsenic	7.33	0.0925	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Cadmium	0.281	0.0925	"	"	"	"	"
Lead	13.9	0.925	"	"	"	"	"
Selenium	0.276	0.0925	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N01@3'

8/8/2022 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0824	08/08/2022	08/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 87.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.8 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N01@3'

8/8/2022 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208185-08 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L632762	08/18/2022	08/18/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.00559	0.00247	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.6 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.43	0.0959	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Cadmium	0.460	0.0959	"	"	"	"	"
Lead	17.4	0.959	"	"	"	"	"
Selenium	0.169	0.0959	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E01@3'
8/8/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0824	08/08/2022	08/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 91.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.9 % 70-130 " " "
Surrogate: Toluene-d8 96.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.3 % 70-130 " " "

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E01@3'

8/8/2022 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208185-09 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L632762	08/18/2022	08/18/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.0251	0.00247	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	77 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	50.5 %		29-110			"	"	"

Table 915 metals by EPA 6020B

Arsenic	6.01		0.0868	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Cadmium	2.65		0.0868	"	"	"	"	"
Lead	75.8		0.868	"	"	"	"	"
Selenium	0.303		0.0868	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S01@3'

8/8/2022 12:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0824	08/08/2022	08/09/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 44.8 % 50-150 " " " S-DUP

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.1 % 70-130 " " "

Surrogate: Toluene-d8 96.7 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S01@3'

8/8/2022 12:37:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208185-10 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L632762	08/18/2022	08/18/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.0167	0.00247	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	74.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	81.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.10	0.0768	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Cadmium	1.65	0.0768	"	"	"	"	"
Lead	39.0	0.768	"	"	"	"	"
Selenium	0.293	0.0768	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

W01@3'

8/8/2022 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y208185-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2H0824	08/08/2022	08/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00300	0.00200	mg/kg	1	B2H0825	08/08/2022	08/08/2022	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.3 % 70-130 " " "
Surrogate: Toluene-d8 96.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.7 % 70-130 " " "

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

W01@3'

8/8/2022 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y208185-11 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.0234	0.00364	0.0067	mg/Kg	10	L632762	08/18/2022	08/18/2022	
2-Methylnaphthalene	0.0385	0.00645	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"	
Fluorene	0.00723	0.00286	0.0067	"	"	"	"	"	
Naphthalene	0.00596	0.00484	0.0067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	55.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43.6 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	3.29	0.0814	mg/kg	5	B2H0921	08/09/2022	08/11/2022
Cadmium	0.464	0.0814	"	"	"	"	"
Lead	24.4	0.814	"	"	"	"	"
Selenium	0.216	0.0814	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0824 - EPA 3550B										
Blank (B2H0824-BLK1)					Prepared: 08/08/2022 Analyzed: 08/08/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		86.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0824 - EPA 3550B

LCS (B2H0824-BS1)

Prepared: 08/08/2022 Analyzed: 08/08/2022

Diesel (C10-C28)	969	50.0	mg/kg	1000		96.9	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0824 - EPA 3550B

Matrix Spike (B2H0824-MS1)		Source: Y208178-01			Prepared: 08/08/2022 Analyzed: 08/08/2022					
Diesel (C10-C28)	869	50.0	mg/kg	1000	ND	86.9	70-130			
Residual Range Organics (C28-C40)	877	200	"	1000	ND	87.7	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0824 - EPA 3550B

Matrix Spike Dup (B2H0824-MSD1)		Source: Y208178-01			Prepared: 08/08/2022 Analyzed: 08/08/2022					
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130	8.10	35	
Residual Range Organics (C28-C40)	948	200	"	1000	ND	94.8	70-130	7.70	35	
Surrogate: o-Terphenyl	40		"	49.8		79.6	50-150			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0825 - EPA 5030 (soil)										
Blank (B2H0825-BLK1)					Prepared: 08/08/2022 Analyzed: 08/08/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.2	70-130			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0825 - EPA 5030 (soil)

LCS (B2H0825-BS1)

Prepared: 08/08/2022 Analyzed: 08/08/2022

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Naphthalene	0.106	0.0100	"	0.100		106	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0825 - EPA 5030 (soil)

Matrix Spike (B2H0825-MS1)		Source: Y208178-01			Prepared: 08/08/2022 Analyzed: 08/08/2022					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.108	0.00200	"	0.100	ND	108	70-130			
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130			
Naphthalene	0.105	0.0100	"	0.100	ND	105	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.219	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2H0825 - EPA 5030 (soil)										
Matrix Spike Dup (B2H0825-MSD1)			Source: Y208178-01		Prepared: 08/08/2022 Analyzed: 08/08/2022					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	1.88	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	3.63	20	
Benzene	0.118	0.00200	"	0.100	ND	118	70-130	9.55	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	1.72	20	
Naphthalene	0.103	0.0100	"	0.100	ND	103	70-130	2.08	20	
Toluene	0.116	0.00200	"	0.100	ND	116	70-130	9.94	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	2.49	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	2.34	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 SM 3500 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 B2H0921 - Default Prep Metals

Blank (B2H0921-BLK1)

Prepared: 08/09/2022 Analyzed: 08/11/2022

Arsenic ND 0.000100 mg/kg

LCS (B2H0921-BS1)

Prepared: 08/09/2022 Analyzed: 08/11/2022

Arsenic 0.0481 0.000100 mg/kg 0.0500 96.2 80-120

Matrix Spike (B2H0921-MS1)

Source: Y208164-07

Prepared: 08/09/2022 Analyzed: 08/11/2022

Arsenic 2.91 0.0179 mg/kg 8.96 0.667 25.0 75-125 QM-07

Matrix Spike Dup (B2H0921-MSD1)

Source: Y208164-07

Prepared: 08/09/2022 Analyzed: 08/11/2022

Arsenic 6.02 0.0184 mg/kg 9.18 0.667 58.3 75-125 69.6 20 QM-07, QR-DUP

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L632762 - 3550B

MSD (L 85670-MSD-L632762)		Source: 85670			Prepared: 08/18/2022 Analyzed: 08/18/2022					
2-Methylnaphthalene	0.0779	0.000645	mg/Kg	0.164	<0.000645	47.5	30-130	6.9	30	
Benzo(a)anthracene	0.113	0.000493	"	0.164	<0.000493	68.9	30-130	6	30	
Fluorene	0.0858	0.000286	"	0.164	<0.000286	52.3	30-130	6.7	30	
Naphthalene	0.0749	0.000484	"	0.164	<0.000484	45.6	30-130	7	30	
1-Methylnaphthalene	0.0784	0.000364	"	0.164	<0.000364	47.8	30-130	6.8	30	
Surrogate: 2-Fluorobiphenyl	51.6		"	0.329	194	51.6	33-115			
Surrogate: 4-Terphenyl-d14	68.3		"	0.329	223	68.3	33-122			
Surrogate: Nitrobenzene-d5	40.7		"	0.329	156	40.7	29-110			

MS (L 85670-MS-L632762)		Source: 85670			Prepared: 08/18/2022 Analyzed: 08/18/2022					
Fluorene	0.0918	0.000286	mg/Kg	0.167	<0.000286	54.9	30-130			
Naphthalene	0.0804	0.000484	"	0.167	<0.000484	48.1	30-130			
1-Methylnaphthalene	0.084	0.000364	"	0.167	<0.000364	50.2	30-130			
2-Methylnaphthalene	0.0835	0.000645	"	0.167	<0.000645	50	30-130			
Benzo(a)anthracene	0.12	0.000493	"	0.167	<0.000493	71.8	30-130			
Surrogate: Nitrobenzene-d5	42.6		"	0.333	156	42.6	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333	223	73.8	33-122			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333	194	55.5	33-115			

LCS (LCS-L632762)					Prepared: 08/18/2022 Analyzed: 08/18/2022					
Fluorene	0.098	0.000286	mg/Kg	0.167		58.6	30-130			
Naphthalene	0.0854	0.000484	"	0.167		51.1	30-130			
Benzo(a)anthracene	0.126	0.000493	"	0.167		75.4	30-130			
2-Methylnaphthalene	0.089	0.000645	"	0.167		53.2	30-130			
1-Methylnaphthalene	0.0896	0.000364	"	0.167		53.6	30-130			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333		80.4	33-122			
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333		62.1	33-115			
Surrogate: Nitrobenzene-d5	46.8		"	0.333		46.8	29-110			

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Jen Pellegrini, Project Manager

Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L632762 - 3550B

LRB (LRB-L632762)

Prepared: 08/18/2022 Analyzed: 08/18/2022

1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	53.7		"	0.333	53.7		29-110			
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333	68.1		33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333	81.3		33-122			

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA
Facility

Notes and Definitions

U Sample is Non-Detect.

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

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

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.

September 22, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Pope 11-35, Scottsdale O SA Facility **Project Number - 09A1417113**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale O SA Facility received by Origins Laboratory, Inc. September 15, 2022. This project is associated with Origins project number Y209336-01.

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E02@3'	Y209336-01	Soil	September 15, 2022 11:30	09/15/2022 17:10
W02@6'	Y209336-02	Soil	September 15, 2022 11:30	09/15/2022 17:10
N02@6'	Y209336-03	Soil	September 15, 2022 11:40	09/15/2022 17:10
N03@6'	Y209336-04	Soil	September 15, 2022 11:40	09/15/2022 17:10
N04@6'	Y209336-05	Soil	September 15, 2022 11:50	09/15/2022 17:10
S02@7'	Y209336-06	Soil	September 15, 2022 11:50	09/15/2022 17:10
S03@7'	Y209336-07	Soil	September 15, 2022 12:00	09/15/2022 17:10
S04@3'	Y209336-08	Soil	September 15, 2022 12:00	09/15/2022 17:10
B01@14'	Y209336-09	Soil	September 15, 2022 12:10	09/15/2022 17:10
B02@14'	Y209336-10	Soil	September 15, 2022 12:10	09/15/2022 17:10
B03@14'	Y209336-11	Soil	September 15, 2022 12:20	09/15/2022 17:10
GW01	Y209336-12	Water	September 15, 2022 12:20	09/15/2022 17:10

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA Facility

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LABORATORY, INC

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Impacted **W09336** page 1 of 1

Client: Ensolum

Address:

Project Manager: Jeremy Espinoza

Project Name: Pope 11-35, Scottdale O SA Facility

Project Number: 09A1417113

Telephone Number:

Samples Collected By: Glenn Thompson

Email Address: Ensolum KMG Team

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	TPH	TPH (60-90°C)	TRBS	
E0203'	9-15-22	1130	2	X					X						X X X X X
W0206'		1135													X X X X X
N0206'		1140													X X X X X
N0306'		1145													X X X X X
N0406'		1150													X X X X X
S0107'		1155													X X X X X
S0207'		1200													X X X X X
S0403'		1205													X X X X X
B01014'		1210													X X X X X
B02014'		1215													X X X X X
B03014'		1220													X X X X X
G0401		1225	4						X						X X X X X

Relinquished By: [Signature] Date: 9-15-22 Time: 1710

Relinquished By: [Signature] Date: 9-15-22 Time: 1710

Received By: [Signature] Date: 9-15-22 Time: 1710

Received By: [Signature] Date: 9-15-22 Time: 1710

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

Temp Received: 3.1 Date Results Needed

Origins Laboratory, Inc.

Bynon

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y209336 Client: Ensolum
Client Project ID: Pope 11-35 Scottdale

Checklist Completed by: DE Shipped Via: HD OSA Facility
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 09/15/2022 Airbill #: NA

Matrix(s) Received: (Check all that apply): A Soil/Solid X Water Other:
Cooler Number/Temperature: 113-1-c / 1 °C / 1 °C (Describe)
Thermometer ID: T004

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

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

Reviewed by (Project Manager) 09/15/2022
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E02@3'

9/15/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1530	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	82.4 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/15/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130	"	"	"
Surrogate: Toluene-d8	92.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E02@3'

9/15/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L638482	09/20/2022	09/21/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.043	0.00247	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	6.14	0.0965	mg/kg	10	B211529	09/15/2022	09/16/2022
Cadmium	3.27	0.0965	"	"	"	"	"
Lead	86.5	9.65	"	"	"	"	"
Selenium	0.474	0.0965	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

W02@6'

9/15/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I1530	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/15/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130	"	"	"
Surrogate: Toluene-d8	91.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

W02@6'

9/15/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	1.65		0.0948	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	ND		0.0948	"	"	"	"	"	Ua
Lead	ND		9.48	"	"	"	"	"	Ua
Selenium	ND		0.0948	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N02@6'

9/15/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2I1530	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	92.5 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/15/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130	"	"	"
Surrogate: Toluene-d8	91.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N02@6'

9/15/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000566	0.000493	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.1 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	2.12		0.0859	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	0.204		0.0859	"	"	"	"	"	
Lead	12.4		8.59	"	"	"	"	"	
Selenium	0.0936		0.0859	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N03@6'

9/15/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1530	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	93.2 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130	"	"	"
Surrogate: Toluene-d8	92.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130	"	"	"

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N03@6'

9/15/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.5 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	0.687	0.0990	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	ND	0.0990	"	"	"	"	"	Ua
Lead	ND	9.90	"	"	"	"	"	Ua
Selenium	ND	0.0990	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N04@6'

9/15/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1530	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.2 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130	"	"	"
Surrogate: Toluene-d8	89.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

PAH by 8270D SIM

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N04@6'

9/15/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.3 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	0.872		0.0883	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	ND		0.0883	"	"	"	"	"	Ua
Lead	ND		8.83	"	"	"	"	"	Ua
Selenium	ND		0.0883	"	"	"	"	"	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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S02@7'

9/15/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1530	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 90.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 89.9 % 70-130 " " "
Surrogate: Toluene-d8 92.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S02@7'

9/15/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-06 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.8 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	0.848		0.0974	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	ND		0.0974	"	"	"	"	"	Ua
Lead	ND		9.74	"	"	"	"	"	Ua
Selenium	ND		0.0974	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S03@7'

9/15/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1531	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130	"	"	"
Surrogate: Toluene-d8	92.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S03@7'

9/15/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-07 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	16.2	0.0999	mg/kg	10	B211529	09/15/2022	09/16/2022		
Cadmium	0.128	0.0999	"	"	"	"	"		
Lead	ND	9.99	"	"	"	"	"		Ua
Selenium	0.188	0.0999	"	"	"	"	"		

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S04@3'

9/15/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1531	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 94.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 91.5 % 70-130 " " "
Surrogate: Toluene-d8 91.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 91.6 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S04@3'

9/15/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-08 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.000387	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	J
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0102	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.00127	0.000286	0.00067	"	"	"	"	"	
Naphthalene	0.000761	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.2 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.08	0.0988	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	0.202	0.0988	"	"	"	"	"	
Lead	18.2	9.88	"	"	"	"	"	
Selenium	ND	0.0988	"	"	"	"	"	Ua

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B01@14'

9/15/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1531	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.1 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.228	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130	"	"	"
Surrogate: Toluene-d8	89.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.3 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B01@14'

9/15/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-09 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.000431	0.000286	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	63.1 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	0.397	0.0836	mg/kg	10	B211529	09/15/2022	09/16/2022	
Cadmium	ND	0.0836	"	"	"	"	"	Ua
Lead	ND	8.36	"	"	"	"	"	Ua
Selenium	ND	0.0836	"	"	"	"	"	Ua

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B02@14'

9/15/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1531	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	78.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.620	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130	"	"	"
Surrogate: Toluene-d8	91.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B02@14'

9/15/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-10 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.000291	0.000286	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.8 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	0.834		0.0882	mg/kg	10	B211532	09/15/2022	09/16/2022	
Cadmium	0.109		0.0882	"	"	"	"	"	
Lead	ND		8.82	"	"	"	"	"	Ua
Selenium	ND		0.0882	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B03@14'

9/15/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209336-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2I1531	09/15/2022	09/16/2022	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	63.1 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2I1533	09/15/2022	09/16/2022	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.268	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130	"	"	"
Surrogate: Toluene-d8	91.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130	"	"	"

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B03@14'

9/15/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209336-11 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L638482	09/20/2022	09/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.2 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	1.14		0.0908	mg/kg	10	B211532	09/15/2022	09/16/2022	
Cadmium	ND		0.0908	"	"	"	"	"	Ua
Lead	ND		9.08	"	"	"	"	"	Ua
Selenium	ND		0.0908	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

GW01

9/15/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y209336-12 (Water)

Anions by EPA 300.0

Chloride	217	13.4	40.0	mg/L	200	2318399	09/15/2022	09/19/2022	
Sulfate	449	26.6	80.0	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		2.00	ug/L	1	B211521	09/15/2022	09/16/2022	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	104 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	804	5.00	mg/L	1	B211502	09/15/2022	09/15/2022
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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: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2I1521 - EPA 5030B (Water)										
Blank (B2I1521-BLK1)					Prepared: 09/15/2022 Analyzed: 09/15/2022					
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	62		"	62.5		99.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.1	70-130			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2I1521 - EPA 5030B (Water)

LCS (B2I1521-BS1)

Prepared: 09/15/2022 Analyzed: 09/15/2022

1,2,4-Trimethylbenzene	48.6	2.00	ug/L	50.0		97.1	70-130			
1,3,5-Trimethylbenzene	49.7	2.00	"	50.0		99.5	70-130			
Benzene	52.0	1.00	"	50.0		104	70-130			
Ethylbenzene	56.4	1.00	"	50.0		113	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
Naphthalene	47.8	2.00	"	50.0		95.6	70-130			
o-Xylene	56.0	1.00	"	50.0		112	70-130			
Toluene	55.0	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.5	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.2	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 B2I1521 - EPA 5030B (Water)

Matrix Spike (B2I1521-MS1)		Source: Y209288-01			Prepared: 09/15/2022 Analyzed: 09/15/2022					
1,2,4-Trimethylbenzene	39.8	2.00	ug/L	50.0	ND	79.5	70-130			
1,3,5-Trimethylbenzene	38.8	2.00	"	50.0	ND	77.6	70-130			
Benzene	43.0	1.00	"	50.0	ND	85.9	70-130			
Ethylbenzene	43.0	1.00	"	50.0	ND	86.1	70-130			
m,p-Xylene	85.7	2.00	"	100	ND	85.7	70-130			
Naphthalene	47.4	2.00	"	50.0	ND	94.8	70-130			
o-Xylene	43.8	1.00	"	50.0	ND	87.6	70-130			
Toluene	42.4	1.00	"	50.0	ND	84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.1	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 B2I1521 - EPA 5030B (Water)										
Matrix Spike Dup (B2I1521-MSD1)		Source: Y209288-01			Prepared: 09/15/2022 Analyzed: 09/15/2022					
1,2,4-Trimethylbenzene	43.5	2.00	ug/L	50.0	ND	87.1	70-130	9.05	20	
1,3,5-Trimethylbenzene	43.4	2.00	"	50.0	ND	86.7	70-130	11.2	20	
Benzene	44.6	1.00	"	50.0	ND	89.1	70-130	3.63	20	
Ethylbenzene	46.1	1.00	"	50.0	ND	92.2	70-130	6.91	20	
m,p-Xylene	92.2	2.00	"	100	ND	92.2	70-130	7.31	20	
Naphthalene	63.6	2.00	"	50.0	ND	127	70-130	29.3	20	
o-Xylene	46.7	1.00	"	50.0	ND	93.3	70-130	6.30	20	
Toluene	45.7	1.00	"	50.0	ND	91.3	70-130	7.47	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.4	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 B2I1530 - EPA 3580										
Blank (B2I1530-BLK1)					Prepared: 09/15/2022 Analyzed: 09/16/2022					
Diesel (C10-C28)	ND	12.5	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	50.0	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2I1530 - EPA 3580

LCS (B2I1530-BS1)

Prepared: 09/15/2022 Analyzed: 09/16/2022

Diesel (C10-C28)	939	25.0	mg/kg	1000		93.9	70-130			
Residual Range Organics (C28-C40)	1160	100	"	1000		116	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2I1530 - EPA 3580

Matrix Spike (B2I1530-MS1)		Source: Y209319-01			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Diesel (C10-C28)	926	25.0	mg/kg	1000	ND	92.6	70-130			
Residual Range Organics (C28-C40)	1110	100	"	1000	ND	111	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.6	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 B2I1530 - EPA 3580										
Matrix Spike Dup (B2I1530-MSD1)		Source: Y209319-01			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Diesel (C10-C28)	920	25.0	mg/kg	1000	ND	92.0	70-130	0.646	35	
Residual Range Organics (C28-C40)	1080	100	"	1000	ND	108	70-130	2.62	35	
Surrogate: o-Terphenyl	46		"	49.8		93.4	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1531 - EPA 3580										
Blank (B2I1531-BLK1)					Prepared: 09/15/2022 Analyzed: 09/16/2022					
Diesel (C10-C28)	ND	12.5	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	50.0	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		102	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 B2I1531 - EPA 3580

LCS (B2I1531-BS1)

Prepared: 09/15/2022 Analyzed: 09/16/2022

Diesel (C10-C28)	847	25.0	mg/kg	1000		84.7	70-130			
Residual Range Organics (C28-C40)	1110	100	"	1000		111	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1531 - EPA 3580

Matrix Spike (B2I1531-MS1)		Source: Y209336-07			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Diesel (C10-C28)	853	25.0	mg/kg	1000	ND	85.3	70-130			
Residual Range Organics (C28-C40)	1060	100	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	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 B2I1531 - EPA 3580										
Matrix Spike Dup (B2I1531-MSD1)		Source: Y209336-07			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Diesel (C10-C28)	864	25.0	mg/kg	1000	ND	86.4	70-130	1.34	35	
Residual Range Organics (C28-C40)	1100	100	"	1000	ND	110	70-130	3.37	35	
Surrogate: o-Terphenyl	44		"	49.8		89.2	50-150			

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Project: KMG - Pope 11-35, Scottdale 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 B2I1533 - EPA 5030 (soil)										
Blank (B2I1533-BLK1)					Prepared: 09/15/2022 Analyzed: 09/15/2022					
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		84.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.8	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 B2I1533 - EPA 5030 (soil)										
LCS (B2I1533-BS1)					Prepared: 09/15/2022 Analyzed: 09/15/2022					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.117	0.00200	"	0.100		117	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.0970	0.00380	"	0.100		97.0	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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
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Batch B2I1533 - EPA 5030 (soil)

Matrix Spike (B2I1533-MS1)		Source: Y209319-01			Prepared: 09/15/2022 Analyzed: 09/15/2022					
1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130			
1,3,5-Trimethylbenzene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
Naphthalene	0.0742	0.00380	"	0.100	0.000840	73.4	70-130			
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
o-Xylene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1533 - EPA 5030 (soil)										
Matrix Spike Dup (B2I1533-MSD1)	Source: Y209319-01				Prepared: 09/15/2022 Analyzed: 09/15/2022					
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	ND	97.5	70-130	13.4	20	
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130	14.3	20	
Benzene	0.108	0.00200	"	0.100	ND	108	70-130	12.8	20	
Ethylbenzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	13.6	20	
Naphthalene	0.0881	0.00380	"	0.100	0.000840	87.3	70-130	17.1	20	
Toluene	0.0933	0.00200	"	0.100	ND	93.3	70-130	13.0	20	
o-Xylene	0.0978	0.00200	"	0.100	ND	97.8	70-130	12.5	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130	13.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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***** DEFAULT GENERAL METHOD *** - 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 B2I1529 - Default Prep Metals

Blank (B2I1529-BLK1)

Prepared: 09/15/2022 Analyzed: 09/16/2022

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 (B2I1529-BS1)

Prepared: 09/15/2022 Analyzed: 09/16/2022

Arsenic	0.0526	0.000100	mg/kg	0.0500		105	80-120
Barium	5.13	0.0100	"	5.00		103	80-120
Cadmium	0.0517	0.000100	"	0.0500		103	80-120
Copper	0.501	0.0100	"	0.500		100	80-120
Lead	0.0510	0.0100	"	0.0500		102	80-120
Nickel	0.0532	0.0100	"	0.0500		106	80-120
Selenium	0.0511	0.000100	"	0.0500		102	80-120
Silver	0.0503	0.000100	"	0.0500		101	80-120
Zinc	0.535	0.100	"	0.500		107	80-120

Matrix Spike (B2I1529-MS1)

Source: Y209336-01

Prepared: 09/15/2022 Analyzed: 09/16/2022

Origins Laboratory, Inc.



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Project: KMG - Pope 11-35, Scottdale O SA Facility

*** DEFAULT GENERAL METHOD *** - 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 B2I1529 - Default Prep Metals

Matrix Spike (B2I1529-MS1)		Source: Y209336-01			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Arsenic	9.84	0.0933	mg/kg	4.67	6.14	79.3	75-125			
Barium	653	9.33	"	467	204	96.3	75-125			
Cadmium	7.62	0.0933	"	4.67	3.27	93.1	75-125			
Copper	98.5	9.33	"	46.7	54.3	94.9	75-125			
Lead	95.5	9.33	"	4.67	86.5	194	75-125			QM-07
Nickel	17.5	9.33	"	4.67	12.5	108	75-125			
Selenium	4.49	0.0933	"	4.67	0.474	86.1	75-125			
Silver	6.51	0.0933	"	4.67	1.70	103	75-125			
Zinc	305	93.3	"	46.7	247	124	75-125			

Matrix Spike Dup (B2I1529-MSD1)		Source: Y209336-01			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Arsenic	8.93	0.0834	mg/kg	4.17	6.14	67.0	75-125	9.65	20	QM-07
Barium	592	8.34	"	417	204	93.0	75-125	9.90	20	
Cadmium	6.72	0.0834	"	4.17	3.27	82.7	75-125	12.5	20	
Copper	86.9	8.34	"	41.7	54.3	78.2	75-125	12.6	20	
Lead	88.7	8.34	"	4.17	86.5	52.8	75-125	7.43	20	QM-07
Nickel	15.7	8.34	"	4.17	12.5	76.7	75-125	11.2	20	
Selenium	4.06	0.0834	"	4.17	0.474	86.0	75-125	10.1	20	
Silver	5.36	0.0834	"	4.17	1.70	87.7	75-125	19.5	20	
Zinc	276	83.4	"	41.7	247	71.4	75-125	9.70	20	QM-07

Batch B2I1532 - Default Prep Metals

Blank (B2I1532-BLK1)		Prepared: 09/15/2022 Analyzed: 09/16/2022								
Arsenic	ND	0.000100	mg/kg							Ua
Barium	ND	0.0100	"							Ua
Cadmium	ND	0.000100	"							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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

***** DEFAULT GENERAL METHOD *** - 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 B2I1532 - Default Prep Metals

Blank (B2I1532-BLK1)

Prepared: 09/15/2022 Analyzed: 09/16/2022

Copper	ND	0.0100	mg/kg							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 (B2I1532-BS1)

Prepared: 09/15/2022 Analyzed: 09/16/2022

Arsenic	0.0526	0.000100	mg/kg	0.0500		105	80-120			
Barium	5.07	0.0100	"	5.00		101	80-120			
Cadmium	0.0526	0.000100	"	0.0500		105	80-120			
Copper	0.531	0.0100	"	0.500		106	80-120			
Lead	0.0524	0.0100	"	0.0500		105	80-120			
Nickel	0.0555	0.0100	"	0.0500		111	80-120			
Selenium	0.0523	0.000100	"	0.0500		105	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.535	0.100	"	0.500		107	80-120			

Matrix Spike (B2I1532-MS1)

Source: Y209336-10

Prepared: 09/15/2022 Analyzed: 09/16/2022

Arsenic	6.24	0.0921	mg/kg	4.60	0.834	118	75-125			
Barium	564	9.21	"	460	23.4	117	75-125			
Cadmium	5.54	0.0921	"	4.60	0.109	118	75-125			
Copper	56.9	9.21	"	46.0	2.87	117	75-125			
Lead	7.96	9.21	"	4.60	2.99	108	75-125			Ua
Nickel	7.10	9.21	"	4.60	1.44	123	75-125			Ua
Selenium	4.72	0.0921	"	4.60	0.0741	101	75-125			
Silver	5.30	0.0921	"	4.60	0.0609	114	75-125			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

*** DEFAULT GENERAL METHOD *** - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1532 - Default Prep Metals										
Matrix Spike (B2I1532-MS1)		Source: Y209336-10			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Zinc	70.4	92.1	mg/kg	46.0	19.7	110	75-125			Ua
Matrix Spike Dup (B2I1532-MSD1)		Source: Y209336-10			Prepared: 09/15/2022 Analyzed: 09/16/2022					
Arsenic	5.45	0.0927	mg/kg	4.63	0.834	99.6	75-125	13.5	20	
Barium	498	9.27	"	463	23.4	102	75-125	12.5	20	
Cadmium	4.90	0.0927	"	4.63	0.109	103	75-125	12.3	20	
Copper	49.2	9.27	"	46.3	2.87	99.9	75-125	14.6	20	
Lead	7.70	9.27	"	4.63	2.99	102	75-125	3.33	20	Ua
Nickel	6.69	9.27	"	4.63	1.44	113	75-125	5.91	20	Ua
Selenium	4.63	0.0927	"	4.63	0.0741	98.3	75-125	1.87	20	
Silver	4.70	0.0927	"	4.63	0.0609	100	75-125	12.1	20	
Zinc	69.6	92.7	"	46.3	19.7	108	75-125	1.21	20	Ua

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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
Batch B2I1502 - NO PREP										
Blank (B2I1502-BLK1)					Prepared: 09/15/2022 Analyzed: 09/15/2022					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B2I1502-BS1)					Prepared: 09/15/2022 Analyzed: 09/15/2022					
Total Dissolved Solids	948	5.00	mg/L	994		95.4	90-110			
Duplicate (B2I1502-DUP1)					Source: Y209226-08 Prepared: 09/15/2022 Analyzed: 09/15/2022					
Total Dissolved Solids	1920	5.00	mg/L		1890			1.63	10	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L638482 - 3550B

MSD (L 85069-MSD-L638482)		Source: 85069			Prepared: 09/20/2022 Analyzed: 09/21/2022					
1-Methylnaphthalene	0.106	0.00067	mg/Kg	0.164	<0.000364	64.6	30-130	7.2	30	
2-Methylnaphthalene	0.103	0.00067	"	0.164	<0.000645	62.8	30-130	9.2	30	
Benzo(a)anthracene	0.124	0.00067	"	0.164	<0.000493	75.6	30-130	3.1	30	
Fluorene	0.115	0.00067	"	0.164	<0.000286	70.1	30-130	7.5	30	
Naphthalene	0.1	0.00067	"	0.164	<0.000484	60.9	30-130	8.6	30	
Surrogate: Nitrobenzene-d5	58.2		"	0.328	184	58.2	29-110			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.328	190	59.4	33-115			
Surrogate: 4-Terphenyl-d14	68.9		"	0.328	214	68.9	33-122			

MS (L 85069-MS-L638482)		Source: 85069			Prepared: 09/20/2022 Analyzed: 09/21/2022					
Benzo(a)anthracene	0.128	0.00067	mg/Kg	0.167	<0.000493	76.6	30-130			
1-Methylnaphthalene	0.114	0.00067	"	0.167	<0.000364	68.2	30-130			
2-Methylnaphthalene	0.113	0.00067	"	0.167	<0.000645	67.6	30-130			
Fluorene	0.124	0.00067	"	0.167	<0.000286	74.2	30-130			
Naphthalene	0.109	0.00067	"	0.167	<0.000484	65.2	30-130			
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333	190	59.7	33-115			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333	214	69.3	33-122			
Surrogate: Nitrobenzene-d5	57.9		"	0.333	184	57.9	29-110			

LCS (LCS-L638482)					Prepared: 09/20/2022 Analyzed: 09/21/2022					
1-Methylnaphthalene	0.111	0.00067	mg/Kg	0.167		66.4	30-130			
2-Methylnaphthalene	0.109	0.00067	"	0.167		65.2	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Naphthalene	0.107	0.00067	"	0.167		64	30-130			
Fluorene	0.119	0.00067	"	0.167		71.2	30-130			
Surrogate: Nitrobenzene-d5	66.9		"	0.333		66.9	29-110			
Surrogate: 2-Fluorobiphenyl	68.7		"	0.333		68.7	33-115			
Surrogate: 4-Terphenyl-d14	75		"	0.333		75	33-122			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L638482 - 3550B

LRB (LRB-L638482)

Prepared: 09/20/2022 Analyzed: 09/21/2022

Naphthalene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.333	66.9		33-115			
Surrogate: Nitrobenzene-d5	64.8		"	0.333	64.8		29-110			
Surrogate: 4-Terphenyl-d14	71.4		"	0.333	71.4		33-122			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

Anions by EPA 300.0 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2318399 -										
BLANK (1205195147-BLK)					Prepared: Analyzed: 09/19/2022					
Sulfate	ND	0.400	mg/L				-			U
Chloride	ND	0.200	"				-			U
LCS (1205195148-BKS)					Prepared: Analyzed: 09/19/2022					
Sulfate	10.0	0.400	mg/L	10.0		100	90-110			
Chloride	4.90	0.200	"	5.00		98	90-110			
DUP (1205195149 D)					Source: 593621001 Prepared: Analyzed: 09/19/2022					
Chloride	146	20.0	mg/L		147		0-20	0.989	20	
Sulfate	638	40.0	"		642		0-20	0.542	20	
PS (1205195150 S)					Source: 593621001 Prepared: Analyzed: 09/19/2022					
Sulfate	1660	40.0	mg/L	10.0		102	90-110			
Chloride	642	20.0	"	5.00		99	90-110			
DUP (1205195151 D)					Source: 593630002 Prepared: Analyzed: 09/19/2022					
Chloride	81.6	20.0	mg/L		83.1		0-20	1.82	20	
Sulfate	802	40.0	"		801		0-20	0.12	20	
PS (1205195152 S)					Source: 593630002 Prepared: Analyzed: 09/19/2022					
Sulfate	1840	40.0	mg/L	10.0		104	90-110			
Chloride	566	20.0	"	5.00		96.6	90-110			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

October 13, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Pope 11-35, Scottsdale O SA Facility **Project Number - 09A1417113**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale O SA Facility received by Origins Laboratory, Inc. October 04, 2022. This project is associated with Origins project number Y210038-01.

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E03@3'	Y210038-01	Soil	October 4, 2022 11:30	10/04/2022 15:20
B04@6'	Y210038-02	Soil	October 4, 2022 11:35	10/04/2022 15:20
N05@3'	Y210038-03	Soil	October 4, 2022 11:40	10/04/2022 15:20
S05@3'	Y210038-04	Soil	October 4, 2022 11:45	10/04/2022 15:20

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4210038

Client: Ensolum

Client Project ID: Pope 11-35, Scottdale

Checklist Completed by: TSH/DE

Shipped Via: 142

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

Date/time completed: 10/04/22

Airbill #: _____

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

Cooler Number/Temperature: 1 / 4.1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

10/04/2022
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E03@3'

10/4/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210038-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1227	10/12/2022	10/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1224	10/12/2022	10/13/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00648	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 151 % 70-130 " " " S-GC
Surrogate: Toluene-d8 106 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.8 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E03@3'

10/4/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L641830	10/07/2022	10/10/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0117	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.000376	0.000286	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	64.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.4 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	4.24		0.0980	mg/kg	10	B2J0439	10/04/2022	10/04/2022	
Cadmium	0.802		0.0980	"	"	"	"	"	
Lead	30.2		9.80	"	"	"	"	"	
Selenium	0.288		0.0980	"	"	"	"	"	

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B04@6'

10/4/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210038-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1227	10/12/2022	10/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1224	10/12/2022	10/13/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00550	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 153 % 70-130 " " " S-GC
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B04@6'

10/4/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L641830	10/07/2022	10/10/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000824	0.000493	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.2 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.89	0.0906	mg/kg	10	B2J0439	10/04/2022	10/04/2022
Cadmium	0.217	0.0906	"	"	"	"	"
Lead	9.35	9.06	"	"	"	"	"
Selenium	ND	0.0906	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N05@3'

10/4/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210038-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1227	10/12/2022	10/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1224	10/12/2022	10/13/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00530	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 152 % 70-130 " " " S-GC
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N05@3'

10/4/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L641830	10/07/2022	10/10/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00106	0.000493	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.6 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.80	0.0929	mg/kg	10	B2J0439	10/04/2022	10/04/2022
Cadmium	0.237	0.0929	"	"	"	"	"
Lead	14.0	9.29	"	"	"	"	"
Selenium	0.132	0.0929	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S05@3'

10/4/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210038-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J1227	10/12/2022	10/12/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1224	10/12/2022	10/13/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00456	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 155 % 70-130 " " " S-GC
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S05@3'

10/4/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00364	0.0067	mg/Kg	10	L641830	10/07/2022	10/10/2022
2-Methylnaphthalene	ND	0.00645	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.0495	0.00493	0.0067	"	"	"	"	"
Fluorene	ND	0.00286	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.3 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	8.09	0.0867	mg/kg	10	B2J0439	10/04/2022	10/04/2022
Cadmium	2.38	0.0867	"	"	"	"	"
Lead	103	8.67	"	"	"	"	"
Selenium	0.430	0.0867	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1224 - EPA 5030 (soil)										
Blank (B2J1224-BLK1)					Prepared: 10/12/2022 Analyzed: 10/13/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.18		"	0.125	147		70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.5		70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1224 - EPA 5030 (soil)										
LCS (B2J1224-BS1)					Prepared: 10/12/2022 Analyzed: 10/13/2022					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.18		"	0.125		145	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1224 - EPA 5030 (soil)										
Matrix Spike (B2J1224-MS1)		Source: Y210038-01			Prepared: 10/12/2022 Analyzed: 10/13/2022					
1,2,4-Trimethylbenzene	0.0863	0.00200	mg/kg	0.100	ND	86.3	70-130			
1,3,5-Trimethylbenzene	0.0894	0.00200	"	0.100	ND	89.4	70-130			
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0916	0.00200	"	0.100	0.00128	90.3	70-130			
Naphthalene	0.0753	0.00380	"	0.100	0.000520	74.8	70-130			
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
o-Xylene	0.0930	0.00200	"	0.100	0.00176	91.2	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	0.00472	94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.19		"	0.125		150	70-130			S-GC
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1224 - EPA 5030 (soil)										
Matrix Spike Dup (B2J1224-MSD1)		Source: Y210038-01			Prepared: 10/12/2022 Analyzed: 10/13/2022					
1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100	ND	92.8	70-130	7.17	20	
1,3,5-Trimethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	7.58	20	
Benzene	0.0891	0.00200	"	0.100	ND	89.1	70-130	5.73	20	
Ethylbenzene	0.0954	0.00200	"	0.100	0.00128	94.2	70-130	4.08	20	
Naphthalene	0.0839	0.00380	"	0.100	0.000520	83.3	70-130	10.7	20	
Toluene	0.0905	0.00200	"	0.100	ND	90.5	70-130	10.0	20	
o-Xylene	0.0995	0.00200	"	0.100	0.00176	97.7	70-130	6.71	20	
m,p-Xylene	0.202	0.00400	"	0.200	0.00472	98.7	70-130	4.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.19		"	0.125		151	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1227 - EPA 3550B

Blank (B2J1227-BLK1)

Prepared: 10/12/2022 Analyzed: 10/12/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1227 - EPA 3550B

LCS (B2J1227-BS1)

Prepared: 10/12/2022 Analyzed: 10/13/2022

Diesel (C10-C28)	815	50.0	mg/kg	1000		81.5	70-130			
Residual Range Organics (C28-C40)	872	200	"	1000		87.2	70-130			
Surrogate: o-Terphenyl	39		"	49.8		79.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1227 - EPA 3550B

Matrix Spike (B2J1227-MS1)		Source: Y210038-01			Prepared: 10/12/2022 Analyzed: 10/12/2022					
Diesel (C10-C28)	946	50.0	mg/kg	1000	ND	94.6	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	70		"	49.8		140	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2J1227 - EPA 3550B

Matrix Spike Dup (B2J1227-MSD1)		Source: Y210038-01			Prepared: 10/12/2022 Analyzed: 10/12/2022					
Diesel (C10-C28)	919	50.0	mg/kg	1000	ND	91.9	70-130	2.89	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	3.55	35	
Surrogate: o-Terphenyl	60		"	49.8		121	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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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*** DEFAULT GENERAL METHOD *** - 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 B2J0439 - Default Prep Metals

Blank (B2J0439-BLK1)

Prepared: 10/04/2022 Analyzed: 10/04/2022

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

LCS (B2J0439-BS1)

Prepared: 10/04/2022 Analyzed: 10/04/2022

Arsenic	0.0506	0.000100	mg/kg	0.0500		101	80-120
Barium	5.12	0.0100	"	5.00		102	80-120
Cadmium	0.0520	0.000100	"	0.0500		104	80-120
Copper	0.499	0.0100	"	0.500		99.8	80-120
Lead	0.0517	0.0100	"	0.0500		103	80-120
Nickel	0.0526	0.0100	"	0.0500		105	80-120
Selenium	0.0489	0.000100	"	0.0500		97.7	80-120
Silver	0.0522	0.000100	"	0.0500		104	80-120
Zinc	0.514	0.100	"	0.500		103	80-120

Matrix Spike (B2J0439-MS1)

Source: Y210038-01

Prepared: 10/04/2022 Analyzed: 10/04/2022

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

*** DEFAULT GENERAL METHOD *** - 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 B2J0439 - Default Prep Metals

Matrix Spike (B2J0439-MS1)		Source: Y210038-01			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Arsenic	8.67	0.0906	mg/kg	4.53	4.24	97.9	75-125			
Barium	595	9.06	"	453	138	101	75-125			
Cadmium	5.54	0.0906	"	4.53	0.802	105	75-125			
Copper	56.5	9.06	"	45.3	20.9	78.5	75-125			
Lead	43.6	9.06	"	4.53	30.2	296	75-125			QM-07
Nickel	13.5	9.06	"	4.53	9.57	86.6	75-125			
Selenium	4.58	0.0906	"	4.53	0.288	94.7	75-125			
Silver	5.13	0.0906	"	4.53	0.490	102	75-125			
Zinc	157	90.6	"	45.3	92.4	141	75-125			QM-07
Matrix Spike Dup (B2J0439-MSD1)		Source: Y210038-01			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Arsenic	6.93	0.0922	mg/kg	4.61	4.24	58.4	75-125	22.3	20	QM-07, QR-DUP
Barium	538	9.22	"	461	138	86.8	75-125	10.1	20	
Cadmium	5.17	0.0922	"	4.61	0.802	94.9	75-125	6.88	20	
Copper	52.4	9.22	"	46.1	20.9	68.4	75-125	7.49	20	QM-07
Lead	26.6	9.22	"	4.61	30.2	NR	75-125	48.3	20	QM-02, QM-07
Nickel	11.5	9.22	"	4.61	9.57	41.0	75-125	16.3	20	QM-07
Selenium	4.31	0.0922	"	4.61	0.288	87.2	75-125	6.17	20	
Silver	4.98	0.0922	"	4.61	0.490	97.5	75-125	2.91	20	
Zinc	119	92.2	"	46.1	92.4	57.6	75-125	27.3	20	QM-07, QR-DUP

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L641830 - 3550B

MSD (L 93780-MSD-L641830)		Source: 93780			Prepared: 10/07/2022 Analyzed: 10/10/2022					
2-Methylnaphthalene	0.111	0.00067	mg/Kg	0.166	<0.000645	66.8	30-130	8.4	30	
Benzo(a)anthracene	0.128	0.00067	"	0.166	<0.000493	77.1	30-130	5.6	30	
1-Methylnaphthalene	0.112	0.00067	"	0.166	<0.000364	67.4	30-130	8.3	30	
Fluorene	0.12	0.00067	"	0.166	<0.000286	72.2	30-130	6	30	
Surrogate: Nitrobenzene-d5	66.7		"	0.331	194	66.7	29-110			
Surrogate: 2-Fluorobiphenyl	67		"	0.331	203	67	33-115			
Surrogate: 4-Terphenyl-d14	76.4		"	0.331	227	76.4	33-122			

MS (L 93780-MS-L641830)		Source: 93780			Prepared: 10/07/2022 Analyzed: 10/10/2022					
2-Methylnaphthalene	0.102	0.00067	mg/Kg	0.167	<0.000645	61	30-130			
1-Methylnaphthalene	0.103	0.00067	"	0.167	<0.000364	61.6	30-130			
Fluorene	0.113	0.00067	"	0.167	<0.000286	67.6	30-130			
Benzo(a)anthracene	0.121	0.00067	"	0.167	<0.000493	72.4	30-130			
Surrogate: 2-Fluorobiphenyl	63		"	0.333	203	63	33-115			
Surrogate: Nitrobenzene-d5	63.6		"	0.333	194	63.6	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333	227	73.8	33-122			

LCS (LCS-L641830)		Prepared: 10/07/2022 Analyzed: 10/10/2022								
1-Methylnaphthalene	0.105	0.00067	mg/Kg	0.167		62.8	30-130			
2-Methylnaphthalene	0.104	0.00067	"	0.167		62.2	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Fluorene	0.11	0.00067	"	0.167		65.8	30-130			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			

LRB (LRB-L641830)		Prepared: 10/07/2022 Analyzed: 10/10/2022								
2-Methylnaphthalene	ND	0.00067	mg/Kg			-				

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L641830 - 3550B

LRB (LRB-L641830)

Prepared: 10/07/2022 Analyzed: 10/10/2022

Fluorene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333	85.5		33-122			
Surrogate: 2-Fluorobiphenyl	76.8		"	0.333	76.8		33-115			
Surrogate: Nitrobenzene-d5	70.8		"	0.333	70.8		29-110			

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA
Facility

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- J Estimated Value. Analyte below reported quantitation limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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October 12, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Pope 11-35, Scottsdale O SA Facility **Project Number - 09A1417113**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale O SA Facility received by Origins Laboratory, Inc. October 04, 2022. This project is associated with Origins project number Y210038-01.

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E03@3'	Y210038-01	Soil	October 4, 2022 11:30	10/04/2022 15:20
B04@6'	Y210038-02	Soil	October 4, 2022 11:35	10/04/2022 15:20
N05@3'	Y210038-03	Soil	October 4, 2022 11:40	10/04/2022 15:20
S05@3'	Y210038-04	Soil	October 4, 2022 11:45	10/04/2022 15:20

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4210038

Client: Ensolum

Client Project ID: Pope 11-35, Scottdale

Checklist Completed by: TSH/DE

Shipped Via: 142

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

Date/time completed: 10/04/22

Airbill #: _____

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

Cooler Number/Temperature: 1 / 4.1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

10/04/2022
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E03@3'

10/4/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L641830	10/07/2022	10/10/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0117	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.000376	0.000286	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	64.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.4 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	4.24	0.0980	mg/kg	10	B2J0439	10/04/2022	10/04/2022	
Cadmium	0.802	0.0980	"	"	"	"	"	
Lead	30.2	9.80	"	"	"	"	"	
Selenium	0.288	0.0980	"	"	"	"	"	

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B04@6'

10/4/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L641830	10/07/2022	10/10/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000824	0.000493	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.2 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.89	0.0906	mg/kg	10	B2J0439	10/04/2022	10/04/2022
Cadmium	0.217	0.0906	"	"	"	"	"
Lead	9.35	9.06	"	"	"	"	"
Selenium	ND	0.0906	"	"	"	"	" U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N05@3'

10/4/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L641830	10/07/2022	10/10/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00106	0.000493	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.6 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.80	0.0929	mg/kg	10	B2J0439	10/04/2022	10/04/2022
Cadmium	0.237	0.0929	"	"	"	"	"
Lead	14.0	9.29	"	"	"	"	"
Selenium	0.132	0.0929	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S05@3'

10/4/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210038-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00364	0.0067	mg/Kg	10	L641830	10/07/2022	10/10/2022
2-Methylnaphthalene	ND	0.00645	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.0495	0.00493	0.0067	"	"	"	"	"
Fluorene	ND	0.00286	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.3 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	8.09	0.0867	mg/kg	10	B2J0439	10/04/2022	10/04/2022
Cadmium	2.38	0.0867	"	"	"	"	"
Lead	103	8.67	"	"	"	"	"
Selenium	0.430	0.0867	"	"	"	"	"

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

***** DEFAULT GENERAL METHOD *** - 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 B2J0439 - Default Prep Metals

Blank (B2J0439-BLK1)

Prepared: 10/04/2022 Analyzed: 10/04/2022

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

LCS (B2J0439-BS1)

Prepared: 10/04/2022 Analyzed: 10/04/2022

Arsenic	0.0506	0.000100	mg/kg	0.0500		101	80-120
Barium	5.12	0.0100	"	5.00		102	80-120
Cadmium	0.0520	0.000100	"	0.0500		104	80-120
Copper	0.499	0.0100	"	0.500		99.8	80-120
Lead	0.0517	0.0100	"	0.0500		103	80-120
Nickel	0.0526	0.0100	"	0.0500		105	80-120
Selenium	0.0489	0.000100	"	0.0500		97.7	80-120
Silver	0.0522	0.000100	"	0.0500		104	80-120
Zinc	0.514	0.100	"	0.500		103	80-120

Matrix Spike (B2J0439-MS1)

Source: Y210038-01

Prepared: 10/04/2022 Analyzed: 10/04/2022

Arsenic	8.67	0.0906	mg/kg	4.53	4.24	97.9	75-125	
Barium	595	9.06	"	453	138	101	75-125	
Cadmium	5.54	0.0906	"	4.53	0.802	105	75-125	
Copper	56.5	9.06	"	45.3	20.9	78.5	75-125	
Lead	43.6	9.06	"	4.53	30.2	296	75-125	QM-07

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

*** DEFAULT GENERAL METHOD *** - 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 B2J0439 - Default Prep Metals

Matrix Spike (B2J0439-MS1)		Source: Y210038-01			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Nickel	13.5	9.06	mg/kg	4.53	9.57	86.6	75-125			
Selenium	4.58	0.0906	"	4.53	0.288	94.7	75-125			
Silver	5.13	0.0906	"	4.53	0.490	102	75-125			
Zinc	157	90.6	"	45.3	92.4	141	75-125			QM-07
Matrix Spike Dup (B2J0439-MSD1)		Source: Y210038-01			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Arsenic	6.93	0.0922	mg/kg	4.61	4.24	58.4	75-125	22.3	20	QM-07, QR-DUP
Barium	538	9.22	"	461	138	86.8	75-125	10.1	20	
Cadmium	5.17	0.0922	"	4.61	0.802	94.9	75-125	6.88	20	
Copper	52.4	9.22	"	46.1	20.9	68.4	75-125	7.49	20	QM-07
Lead	26.6	9.22	"	4.61	30.2	NR	75-125	48.3	20	QM-02, QM-07
Nickel	11.5	9.22	"	4.61	9.57	41.0	75-125	16.3	20	QM-07
Selenium	4.31	0.0922	"	4.61	0.288	87.2	75-125	6.17	20	
Silver	4.98	0.0922	"	4.61	0.490	97.5	75-125	2.91	20	
Zinc	119	92.2	"	46.1	92.4	57.6	75-125	27.3	20	QM-07, QR-DUP

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: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L641830 - 3550B										
MSD (L 93780-MSD-L641830)			Source: 93780		Prepared: 10/07/2022 Analyzed: 10/10/2022					
1-Methylnaphthalene	0.112	0.00067	mg/Kg	0.166	<0.000364	67.4	30-130	8.3	30	
2-Methylnaphthalene	0.111	0.00067	"	0.166	<0.000645	66.8	30-130	8.4	30	
Benzo(a)anthracene	0.128	0.00067	"	0.166	<0.000493	77.1	30-130	5.6	30	
Fluorene	0.12	0.00067	"	0.166	<0.000286	72.2	30-130	6	30	
Surrogate: 2-Fluorobiphenyl	67		"	0.331	203	67	33-115			
Surrogate: 4-Terphenyl-d14	76.4		"	0.331	227	76.4	33-122			
Surrogate: Nitrobenzene-d5	66.7		"	0.331	194	66.7	29-110			
MS (L 93780-MS-L641830)			Source: 93780		Prepared: 10/07/2022 Analyzed: 10/10/2022					
Benzo(a)anthracene	0.121	0.00067	mg/Kg	0.167	<0.000493	72.4	30-130			
Fluorene	0.113	0.00067	"	0.167	<0.000286	67.6	30-130			
1-Methylnaphthalene	0.103	0.00067	"	0.167	<0.000364	61.6	30-130			
2-Methylnaphthalene	0.102	0.00067	"	0.167	<0.000645	61	30-130			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333	227	73.8	33-122			
Surrogate: Nitrobenzene-d5	63.6		"	0.333	194	63.6	29-110			
Surrogate: 2-Fluorobiphenyl	63		"	0.333	203	63	33-115			
LCS (LCS-L641830)			Prepared: 10/07/2022 Analyzed: 10/10/2022							
Benzo(a)anthracene	0.12	0.00067	mg/Kg	0.167		71.8	30-130			
Fluorene	0.11	0.00067	"	0.167		65.8	30-130			
2-Methylnaphthalene	0.104	0.00067	"	0.167		62.2	30-130			
1-Methylnaphthalene	0.105	0.00067	"	0.167		62.8	30-130			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			
LRB (LRB-L641830)			Prepared: 10/07/2022 Analyzed: 10/10/2022							
1-Methylnaphthalene	ND	0.00067	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L641830 - 3550B

LRB (LRB-L641830)

Prepared: 10/07/2022 Analyzed: 10/10/2022

2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	70.8		"	0.333	70.8		29-110			
Surrogate: 2-Fluorobiphenyl	76.8		"	0.333	76.8		33-115			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333	85.5		33-122			

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

Notes and Definitions

U Sample is Non-Detect.

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

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

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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November 18, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Pope 11-35, Scottsdale O SA Facility **Project Number - 09A1417113**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale O SA Facility received by Origins Laboratory, Inc. November 14, 2022. This project is associated with Origins project number Y211382-01.

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S06@3'	Y211382-01	Soil	November 14, 2022 14:48	11/14/2022 17:25
E04@3'	Y211382-02	Soil	November 14, 2022 14:56	11/14/2022 17:25

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417113

Project: KMG - Pope 11-35, Scottsdale O SA Facility

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 421382

Client: Ensolum

Client Project ID: Pope, Scottsdale OSA

Checklist Completed by: JH/DE

Shipped Via: HD

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

Date/time completed: 11/14/22

Airbill #: HD

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

Cooler Number/Temperature: 130 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager)

Date/Time Reviewed 11/14/22

Origins Laboratory, Inc.

J. Bynon

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S06@3'

11/14/2022 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211382-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K1422	11/14/2022	11/15/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K1043	11/14/2022	11/14/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "
Surrogate: Toluene-d8 95.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S06@3'

11/14/2022 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211382-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L649294	11/17/2022	11/17/2022
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"
Benzo(a)anthracene	0.138	0.00247	0.00335	"	"	"	"	"
Fluorene	0.00355	0.00143	0.00335	"	"	"	"	"
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.7 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	25.9	0.0910	mg/kg	10	B2K1421	11/14/2022	11/15/2022
Cadmium	0.655	0.0910	"	"	"	"	"
Lead	173	9.10	"	"	"	"	"
Selenium	0.439	0.0910	"	"	"	"	"

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E04@3'

11/14/2022 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211382-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2K1422	11/14/2022	11/15/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2K1043	11/14/2022	11/14/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 125 % 70-130 " " "
Surrogate: Toluene-d8 94.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

PAH by 8270D SIM

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E04@3'

11/14/2022 2:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211382-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L649294	11/17/2022	11/17/2022
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"
Benzo(a)anthracene	0.0301	0.00247	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.5 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	5.14	0.0959	mg/kg	10	B2K1421	11/14/2022	11/15/2022
Cadmium	1.60	0.0959	"	"	"	"	"
Lead	53.1	9.59	"	"	"	"	"
Selenium	0.239	0.0959	"	"	"	"	"

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K1043 - EPA 5030 (soil)										
Blank (B2K1043-BLK1)					Prepared: 11/10/2022 Analyzed: 11/14/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125	117		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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Project: KMG - Pope 11-35, Scottdale 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 B2K1043 - EPA 5030 (soil)

LCS (B2K1043-BS1)

Prepared: 11/10/2022 Analyzed: 11/14/2022

1,2,4-Trimethylbenzene	0.0946	0.00200	mg/kg	0.100		94.6	70-130			
1,3,5-Trimethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0941	0.00200	"	0.100		94.1	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0969	0.00200	"	0.100		96.9	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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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 B2K1043 - EPA 5030 (soil)										
Matrix Spike (B2K1043-MS1)		Source: Y211226-01			Prepared: 11/10/2022 Analyzed: 11/14/2022					
1,2,4-Trimethylbenzene	0.0656	0.00200	mg/kg	0.100	0.000680	64.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0641	0.00200	"	0.100	ND	64.1	70-130			QM-07
Benzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Ethylbenzene	0.0711	0.00200	"	0.100	ND	71.1	70-130			
Naphthalene	0.0669	0.00380	"	0.100	0.00168	65.2	70-130			QM-07
Toluene	0.0795	0.00200	"	0.100	0.000800	78.7	70-130			
o-Xylene	0.0722	0.00200	"	0.100	ND	72.2	70-130			
m,p-Xylene	0.138	0.00400	"	0.200	0.00106	68.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K1043 - EPA 5030 (soil)

Matrix Spike Dup (B2K1043-MSD1)		Source: Y211226-01			Prepared: 11/10/2022 Analyzed: 11/14/2022					
1,2,4-Trimethylbenzene	0.0757	0.00200	mg/kg	0.100	0.000680	75.0	70-130	14.4	20	
1,3,5-Trimethylbenzene	0.0757	0.00200	"	0.100	ND	75.7	70-130	16.5	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	14.2	20	
Ethylbenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130	15.5	20	
Naphthalene	0.0780	0.00380	"	0.100	0.00168	76.4	70-130	15.4	20	
Toluene	0.0923	0.00200	"	0.100	0.000800	91.5	70-130	14.8	20	
o-Xylene	0.0857	0.00200	"	0.100	ND	85.7	70-130	17.1	20	
m,p-Xylene	0.163	0.00400	"	0.200	0.00106	80.9	70-130	16.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K1422 - EPA 3580										
Blank (B2K1422-BLK1)					Prepared: 11/14/2022 Analyzed: 11/14/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.7	50-150			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K1422 - EPA 3580

LCS (B2K1422-BS1)

Prepared: 11/14/2022 Analyzed: 11/14/2022

Diesel (C10-C28)	1090	50.0	mg/kg	1000		109	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.5	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K1422 - EPA 3580

Matrix Spike (B2K1422-MS1)		Source: Y211367-01			Prepared: 11/14/2022 Analyzed: 11/14/2022					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	916	200	"	1000	ND	91.6	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K1422 - EPA 3580

Matrix Spike Dup (B2K1422-MSD1)		Source: Y211367-01			Prepared: 11/14/2022 Analyzed: 11/14/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	6.07	35	
Residual Range Organics (C28-C40)	941	200	"	1000	ND	94.1	70-130	2.65	35	
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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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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 B2K1421 - EPA 3050B

Blank (B2K1421-BLK1)

Prepared: 11/14/2022 Analyzed: 11/15/2022

Arsenic	ND	0.000100	mg/kg
Cadmium	ND	0.000100	"
Lead	ND	0.0100	"
Selenium	ND	0.000100	"

LCS (B2K1421-BS1)

Prepared: 11/14/2022 Analyzed: 11/15/2022

Arsenic	0.0497	0.000100	mg/kg	0.0500		99.3	80-120
Cadmium	0.0508	0.000100	"	0.0500		102	80-120
Lead	0.0505	0.0100	"	0.0500		101	80-120
Selenium	0.0514	0.000100	"	0.0500		103	80-120

Matrix Spike (B2K1421-MS1)

Source: Y211382-01

Prepared: 11/14/2022 Analyzed: 11/15/2022

Arsenic	4.43	0.0894	mg/kg	4.47	25.9	NR	75-125		QM-07
Cadmium	4.34	0.0894	"	4.47	0.655	82.4	75-125		
Lead	4.29	8.94	"	4.47	173	NR	75-125		QM-07
Selenium	4.48	0.0894	"	4.47	0.439	90.5	75-125		

Matrix Spike Dup (B2K1421-MSD1)

Source: Y211382-01

Prepared: 11/14/2022 Analyzed: 11/15/2022

Arsenic	4.13	0.0851	mg/kg	4.26	25.9	NR	75-125	6.93	20	QM-07
Cadmium	4.08	0.0851	"	4.26	0.655	80.5	75-125	6.10	20	
Lead	4.01	8.51	"	4.26	173	NR	75-125	6.62	20	QM-07
Selenium	4.32	0.0851	"	4.26	0.439	91.2	75-125	3.75	20	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L649294 - 3550B

MSD (L 91302-MSD-L649294)		Source: 91302			Prepared: 11/17/2022 Analyzed: 11/17/2022					
Naphthalene	0.0682	0.00201	mg/Kg	0.165	<0.00145	41.3	30-130	13.5	30	
1-Methylnaphthalene	0.0549	0.00201	"	0.165	<0.00109	33.2	30-130	15.7	30	
Fluorene	0.072	0.00067	"	0.165	<0.000286	43.6	30-130	31.7	30	*
Benzo(a)anthracene	0.0707	0.00067	"	0.165	<0.000493	42.8	30-130	16.9	30	
2-Methylnaphthalene	0.0686	0.00201	"	0.165	<0.00194	41.5	30-130	11.6	30	
Surrogate: Nitrobenzene-d5	37.2		"	0.33	155	37.2	29-110			
Surrogate: 4-Terphenyl-d14	51.2		"	0.33	174	51.2	33-122			
Surrogate: 2-Fluorobiphenyl	37.5		"	0.33	159	37.5	33-115			

MS (L 91302-MS-L649294)		Source: 91302			Prepared: 11/17/2022 Analyzed: 11/17/2022					
Naphthalene	0.0781	0.00201	mg/Kg	0.166	<0.00145	47	30-130			
2-Methylnaphthalene	0.0771	0.00201	"	0.166	<0.00194	46.4	30-130			
Fluorene	0.0992	0.00067	"	0.166	<0.000286	59.7	30-130			
Benzo(a)anthracene	0.0838	0.00067	"	0.166	<0.000493	50.4	30-130			
1-Methylnaphthalene	0.0643	0.00201	"	0.166	<0.00109	38.7	30-130			
Surrogate: Nitrobenzene-d5	47.7		"	0.331	155	47.7	29-110			
Surrogate: 4-Terphenyl-d14	45.6		"	0.331	174	45.6	33-122			
Surrogate: 2-Fluorobiphenyl	48		"	0.331	159	48	33-115			

LCS (LCS-L649294)		Prepared: 11/17/2022 Analyzed: 11/17/2022								
1-Methylnaphthalene	0.076	0.00201	mg/Kg	0.167		45.5	30-130			
2-Methylnaphthalene	0.068	0.00201	"	0.167		40.7	30-130			
Benzo(a)anthracene	0.0862	0.00067	"	0.167		51.6	30-130			
Fluorene	0.0508	0.00067	"	0.167		30.4	30-130			
Naphthalene	0.0822	0.00201	"	0.167		49.2	30-130			
Surrogate: Nitrobenzene-d5	49.2		"	0.333		49.2	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			
Surrogate: 4-Terphenyl-d14	66		"	0.333		66	33-122			

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L649294 - 3550B

LRB (LRB-L649294)

Prepared: 11/17/2022 Analyzed: 11/17/2022

Naphthalene	ND	0.00201	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	56.4		"	0.333	56.4		29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333	66.3		33-122			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333	55.5		33-115			

Origins Laboratory, Inc.



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

Notes and Definitions

U Sample is Non-Detect.

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

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

December 05, 2022

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Pope 11-35, Scottsdale O SA Facility **Project Number - 09A1417113**

Attached are your analytical results for KMG - Pope 11-35, Scottsdale O SA Facility received by Origins Laboratory, Inc. November 29, 2022. This project is associated with Origins project number Y211614-01.

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: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S07@3'	Y211614-01	Soil	November 29, 2022 13:03	11/29/2022 14:53
S08@3'	Y211614-02	Soil	November 29, 2022 13:09	11/29/2022 14:53
E05@3'	Y211614-03	Soil	November 29, 2022 13:17	11/29/2022 14:53
N06@3'	Y211614-04	Soil	November 29, 2022 13:25	11/29/2022 14:53
B05@6'	Y211614-05	Soil	November 29, 2022 13:34	11/29/2022 14:53

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417113

Project: KMG - Pope 11-35, Scottdale O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9211614

Client: Ensolum

Client Project ID: Pope 11-35, Scottdale

Checklist Completed by: EHS

Shipped Via: AD SA

Date/time completed: 11/29/12

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

Airbill #: NA

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

Cooler Number/Temperature: 1 15.7 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Sam Bynon
Reviewed by (Project Manager)

11/29/12
Date/Time Reviewed

Origins Laboratory, Inc.

Bynon

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S07@3'

11/29/2022 1:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211614-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2K2919	11/29/2022	11/29/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 103 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2K2930	11/29/2022	11/29/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 94.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S07@3'

11/29/2022 1:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211614-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L651326	12/01/2022	12/02/2022	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Benzo(a)anthracene	0.0142	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.000366	0.000286	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	52.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.4 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	7.10	0.0930	mg/kg	10	B2K2931	11/29/2022	11/29/2022	
Cadmium	0.953	0.0930	"	"	"	"	"	
Lead	64.7	9.30	"	"	"	"	"	
Selenium	0.236	0.0930	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S08@3'

11/29/2022 1:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211614-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2K2919	11/29/2022	11/29/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 105 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2K2930	11/29/2022	11/29/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 94.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

S08@3'

11/29/2022 1:09:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211614-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L651326	12/01/2022	12/02/2022
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Benzo(a)anthracene	0.00898	0.000493	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.7 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.74	0.0943	mg/kg	10	B2K2931	11/29/2022	11/29/2022
Cadmium	0.307	0.0943	"	"	"	"	"
Lead	24.0	9.43	"	"	"	"	"
Selenium	ND	0.0943	"	"	"	"	"

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E05@3'

11/29/2022 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211614-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2919	11/29/2022	11/29/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2930	11/29/2022	11/29/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 96.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

E05@3'

11/29/2022 1:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211614-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L651326	12/01/2022	12/02/2022
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"
Benzo(a)anthracene	0.0193	0.00247	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.42	0.0937	mg/kg	10	B2K2931	11/29/2022	11/29/2022
Cadmium	0.947	0.0937	"	"	"	"	"
Lead	37.1	9.37	"	"	"	"	"
Selenium	0.247	0.0937	"	"	"	"	"

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N06@3'

11/29/2022 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211614-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2919	11/29/2022	11/29/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2930	11/29/2022	11/29/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "
Surrogate: Toluene-d8 96.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

N06@3'

11/29/2022 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211614-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L651326	12/01/2022	12/02/2022	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Benzo(a)anthracene	0.00185	0.000493	0.00067	"	"	"	"	"	
Fluorene	0.000332	0.000286	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	53.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.9 %		29-110			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	2.55	0.0958	mg/kg	10	B2K2931	11/29/2022	11/29/2022	
Cadmium	0.215	0.0958	"	"	"	"	"	
Lead	14.2	9.58	"	"	"	"	"	
Selenium	0.107	0.0958	"	"	"	"	"	

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B05@6'

11/29/2022 1:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211614-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K2919	11/29/2022	11/29/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K2930	11/29/2022	11/30/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
Surrogate: Toluene-d8 96.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

B05@6'

11/29/2022 1:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y211614-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L651326	12/01/2022	12/02/2022
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.1 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.09	0.0923	mg/kg	10	B2K2931	11/29/2022	11/29/2022
Cadmium	ND	0.0923	"	"	"	"	"
Lead	ND	9.23	"	"	"	"	"
Selenium	ND	0.0923	"	"	"	"	"

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Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2919 - EPA 3580										
Blank (B2K2919-BLK1)					Prepared: 11/29/2022 Analyzed: 11/29/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	50-150			

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2919 - EPA 3580

LCS (B2K2919-BS1)

Prepared: 11/29/2022 Analyzed: 11/29/2022

Diesel (C10-C28)	490	25.0	mg/kg	500		98.0	70-130			
Residual Range Organics (C28-C40)	488	100	"	500		97.5	70-130			
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2919 - EPA 3580

Matrix Spike (B2K2919-MS1)		Source: Y211614-01			Prepared: 11/29/2022 Analyzed: 11/29/2022					
Diesel (C10-C28)	477	25.0	mg/kg	500	ND	95.4	70-130			
Residual Range Organics (C28-C40)	467	100	"	500	ND	93.4	70-130			
Surrogate: o-Terphenyl	24		"	24.9		96.8	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2919 - EPA 3580

Matrix Spike Dup (B2K2919-MSD1)		Source: Y211614-01			Prepared: 11/29/2022 Analyzed: 11/29/2022					
Diesel (C10-C28)	493	25.0	mg/kg	500	ND	98.7	70-130	3.32	35	
Residual Range Organics (C28-C40)	472	100	"	500	ND	94.4	70-130	1.08	35	
Surrogate: o-Terphenyl	24		"	24.9		96.9	50-150			

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2930 - EPA 5030 (soil)										
Blank (B2K2930-BLK1)					Prepared: 11/29/2022 Analyzed: 11/29/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	114		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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11049 W 44th Avenue, Suite 103
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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2930 - EPA 5030 (soil)

LCS (B2K2930-BS1)

Prepared: 11/29/2022 Analyzed: 11/29/2022

1,2,4-Trimethylbenzene	0.0854	0.00200	mg/kg	0.100		85.4	70-130			
1,3,5-Trimethylbenzene	0.0853	0.00200	"	0.100		85.3	70-130			
Benzene	0.0886	0.00200	"	0.100		88.6	70-130			
Ethylbenzene	0.0844	0.00200	"	0.100		84.4	70-130			
Naphthalene	0.0926	0.00380	"	0.100		92.6	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.0851	0.00200	"	0.100		85.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200		82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2930 - EPA 5030 (soil)										
Matrix Spike (B2K2930-MS1)		Source: Y211614-01			Prepared: 11/29/2022 Analyzed: 11/29/2022					
1,2,4-Trimethylbenzene	0.0669	0.00200	mg/kg	0.100	ND	66.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0679	0.00200	"	0.100	ND	67.9	70-130			QM-07
Benzene	0.0762	0.00200	"	0.100	ND	76.2	70-130			
Ethylbenzene	0.0690	0.00200	"	0.100	ND	69.0	70-130			QM-07
Naphthalene	0.0758	0.00380	"	0.100	ND	75.8	70-130			
Toluene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
o-Xylene	0.0669	0.00200	"	0.100	ND	66.9	70-130			QM-07
m,p-Xylene	0.133	0.00400	"	0.200	ND	66.6	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2930 - EPA 5030 (soil)

Matrix Spike Dup (B2K2930-MSD1)		Source: Y211614-01			Prepared: 11/29/2022 Analyzed: 11/29/2022					
1,2,4-Trimethylbenzene	0.0709	0.00200	mg/kg	0.100	ND	70.9	70-130	5.89	20	
1,3,5-Trimethylbenzene	0.0719	0.00200	"	0.100	ND	71.9	70-130	5.64	20	
Benzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	6.20	20	
Ethylbenzene	0.0726	0.00200	"	0.100	ND	72.6	70-130	5.11	20	
Naphthalene	0.0809	0.00380	"	0.100	ND	80.9	70-130	6.51	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	5.88	20	
o-Xylene	0.0713	0.00200	"	0.100	ND	71.3	70-130	6.43	20	
m,p-Xylene	0.141	0.00400	"	0.200	ND	70.6	70-130	5.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2931 - EPA 3050B

Blank (B2K2931-BLK1)

Prepared: 11/29/2022 Analyzed: 11/29/2022

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 (B2K2931-BS1)

Prepared: 11/29/2022 Analyzed: 11/29/2022

Arsenic	0.0515	0.000100	mg/kg	0.0500	103	80-120
Barium	5.28	0.0100	"	5.00	106	80-120
Cadmium	0.0514	0.000100	"	0.0500	103	80-120
Copper	0.536	0.0100	"	0.500	107	80-120
Lead	0.0513	0.0100	"	0.0500	103	80-120
Nickel	0.0537	0.0100	"	0.0500	107	80-120
Selenium	0.0493	0.000100	"	0.0500	98.5	80-120
Silver	0.0523	0.000100	"	0.0500	105	80-120
Zinc	0.535	0.100	"	0.500	107	80-120

Matrix Spike (B2K2931-MS1)

Source: Y211614-01

Prepared: 11/29/2022 Analyzed: 11/29/2022

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale 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 B2K2931 - EPA 3050B

Matrix Spike (B2K2931-MS1)		Source: Y211614-01			Prepared: 11/29/2022 Analyzed: 11/29/2022					
Arsenic	11.5	0.0935	mg/kg	4.67	7.10	94.0	75-125			
Barium	536	9.35	"	467	121	88.7	75-125			
Cadmium	5.47	0.0935	"	4.67	0.953	96.7	75-125			
Copper	104	9.35	"	46.7	62.5	88.4	75-125			
Lead	63.0	9.35	"	4.67	64.7	NR	75-125			QM-07
Nickel	10.7	9.35	"	4.67	6.17	96.2	75-125			
Selenium	4.19	0.0935	"	4.67	0.236	84.6	75-125			
Silver	5.07	0.0935	"	4.67	0.697	93.7	75-125			
Zinc	218	93.5	"	46.7	167	111	75-125			
Matrix Spike Dup (B2K2931-MSD1)		Source: Y211614-01			Prepared: 11/29/2022 Analyzed: 11/29/2022					
Arsenic	12.6	0.0932	mg/kg	4.66	7.10	118	75-125	9.13	20	
Barium	593	9.32	"	466	121	101	75-125	10.2	20	
Cadmium	5.88	0.0932	"	4.66	0.953	106	75-125	7.16	20	
Copper	113	9.32	"	46.6	62.5	108	75-125	8.15	20	
Lead	73.8	9.32	"	4.66	64.7	195	75-125	15.8	20	QM-07
Nickel	11.3	9.32	"	4.66	6.17	110	75-125	5.71	20	
Selenium	4.61	0.0932	"	4.66	0.236	94.0	75-125	9.60	20	
Silver	5.58	0.0932	"	4.66	0.697	105	75-125	9.45	20	
Zinc	225	93.2	"	46.6	167	124	75-125	2.76	20	

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

Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L651326 - 3550B										
MSD (L 95654-MSD-L651326)			Source: 95654		Prepared: 12/01/2022 Analyzed: 12/02/2022					
1-Methylnaphthalene	0.0784	0.00201	mg/Kg	0.165	<0.00109	47.5	30-130	2.8	30	
2-Methylnaphthalene	0.0751	0.00201	"	0.165	<0.00194	45.5	30-130	2.8	30	
Benzo(a)anthracene	0.0775	0.00067	"	0.165	<0.000493	46.9	30-130	0.5	30	
Fluorene	0.0751	0.00067	"	0.165	<0.000286	45.5	30-130	2.5	30	
Surrogate: 2-Fluorobiphenyl	45.4		"	0.33	170	45.4	33-115			
Surrogate: 4-Terphenyl-d14	54.5		"	0.33	205	54.5	33-122			
Surrogate: Nitrobenzene-d5	44.5		"	0.33	169	44.5	29-110			
MS (L 95654-MS-L651326)			Source: 95654		Prepared: 12/01/2022 Analyzed: 12/02/2022					
Benzo(a)anthracene	0.0779	0.00067	mg/Kg	0.163	<0.000493	47.7	30-130			
1-Methylnaphthalene	0.0762	0.00201	"	0.163	<0.00109	46.7	30-130			
Fluorene	0.0732	0.00067	"	0.163	<0.000286	44.9	30-130			
2-Methylnaphthalene	0.073	0.00201	"	0.163	<0.00194	44.7	30-130			
Surrogate: 4-Terphenyl-d14	53.9		"	0.326	205	53.9	33-122			
Surrogate: Nitrobenzene-d5	42.6		"	0.326	169	42.6	29-110			
Surrogate: 2-Fluorobiphenyl	43.8		"	0.326	170	43.8	33-115			
LCS (LCS-L651326)			Prepared: 12/01/2022 Analyzed: 12/02/2022							
Benzo(a)anthracene	0.101	0.00067	mg/Kg	0.167		60.4	30-130			
Fluorene	0.0943	0.00067	"	0.167		56.4	30-130			
2-Methylnaphthalene	0.0946	0.00201	"	0.167		56.6	30-130			
1-Methylnaphthalene	0.0969	0.00201	"	0.167		58	30-130			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: 2-Fluorobiphenyl	57.9		"	0.333		57.9	33-115			
Surrogate: Nitrobenzene-d5	53.7		"	0.333		53.7	29-110			
LRB (LRB-L651326)			Prepared: 12/01/2022 Analyzed: 12/02/2022							
1-Methylnaphthalene	ND	0.00201	mg/Kg							

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Jeremy Espinoza
Project Number: 09A1417113
Project: KMG - Pope 11-35, Scottdale O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L651326 - 3550B

LRB (LRB-L651326)

Prepared: 12/01/2022 Analyzed: 12/02/2022

2-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57		"	0.333	57		29-110			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333	59.1		33-115			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333	68.1		33-122			

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Ensolum

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Jeremy Espinoza

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Project: KMG - Pope 11-35, Scottdale O SA
Facility

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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