

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PSC 15-10, FSV 24A 4 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-HATCH	10/23/2023	0.5	0.2	NS	NO	40.238929	-104.876632	N
AST01 LOADOUT	10/23/2023	0.5	0.4	NS	NO	40.238926	-104.876684	N
AST01@0.5'	10/23/2023	0.5	0.9	NS	NO	40.238927	-104.876666	Y
AST02@0.5'	10/23/2023	0.5	2.5	NS	NO	40.238882	-104.876634	Y
AST02 LOADOUT	10/23/2023	0.5	0.7	NS	NO	40.238885	-104.876668	N
AST02-BASE	10/23/2023	0.5	0.8	NS	NO	40.238883	-104.876656	N
PRODUCED WATER VESSEL SAMPLES								
N WALL	10/23/2023	2.5	276.2	NS	NO	40.2388616	-104.876649	N
E WALL	10/23/2023	2.5	110.0	NS	NO	40.2388488	-104.8766317	N
S WALL	10/23/2023	2.5	9.5	NS	NO	40.2388372	-104.876649	N
PWV-W01@2.5'	10/23/2023	2.5	1145.0	NS	NO	40.2388506	-104.8766654	Y
PWV-B01@5'	10/23/2023	5	476.0	NS	NO	40.2388504	-104.8766493	Y
SEPARATOR SAMPLES								
SEP01-INLET@4'	10/23/2023	4	0.7	NS	NO	40.238525	-104.876573	Y
SEP01-OUTLET@4'	10/23/2023	4	3.7	NS	NO	40.238561	-104.876594	Y
TANK BATTERY SAMPLES								
B01@4'	12/6/2023	4	0.6	NS	NO	40.238911	-104.876669	Y
B02@5'	12/6/2023	5	0.7	NS	NO	40.238879	-104.876691	Y
B03@6'	12/6/2023	6	1.0	NS	NO	40.238847	-104.876693	Y
N01@2'	12/6/2023	2	1.3	NS	NO	40.238937	-104.876702	Y
E01@2'	12/6/2023	2	4.5	NS	NO	40.238904	-104.876663	Y
E02@3'	12/6/2023	3	108.9	Stain	Odor	40.238851	-104.876646	Y
W01@3'	12/6/2023	3	1.3	NS	NO	40.238853	-104.876739	Y
W02@2'	12/6/2023	2	0.9	NS	NO	40.238896	-104.876738	Y
S01@3'	12/6/2023	3	0.8	NS	NO	40.238817	-104.876683	Y
S02@3'	12/6/2023	3	0.3	NS	NO	40.238818	-104.876718	Y
E03@3'	12/28/2023	3	0.8	NS	NO	40.238851	-104.876625	Y
TB01-N02@8'	6/5/2024	8	2251	Stain	Odor	40.23884	-104.876667	Y
TB01-N01@18'	6/5/2024	18	2578	Stain	Odor	40.23884	-104.876667	Y
TB01-E01@8'	6/5/2024	8	2318	Stain	Odor	40.238831	-104.876626	Y
TB01-E01@18'	6/5/2024	18	5000	Stain	Odor	40.238831	-104.876626	Y
TB01-E02@8'	6/5/2024	8	5000	Stain	Odor	40.238773	-104.876626	Y
TB01-E02@18'	6/5/2024	18	5000	Stain	Odor	40.238773	-104.876626	Y
TB01-S01@8'	6/5/2024	8	203.7	Stain	Odor	40.238728	-104.876679	Y

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PSC 15-10, FSV 24A 4 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)
TB01-S01@18'	6/5/2024	18	5000	Stain	Odor	40.238728	-104.876679	Y
TB01-W01@8'	6/5/2024	8	43.3	Stain	Odor	40.238824	-104.876721	Y
TB01-W01@18'	6/5/2024	18	5000	Stain	Odor	40.238824	-104.876721	Y
TB01-W02@8'	6/5/2024	8	20.4	Stain	Odor	40.238758	-104.876721	Y
TB01-W02@18'	6/5/2024	18	3715	Stain	Odor	40.238758	-104.876721	Y
TB01-B01@20'	6/5/2024	20	1830	Stain	Odor	40.238821	-104.876672	Y
TB01-B02@20'	6/5/2024	20	5000	Stain	Odor	40.238751	-104.876674	Y
TB01-B03@19'	6/26/2024	19	1051	Stain	Odor	40.238720	-104.876568	Y
TB01-B04@19'	6/26/2024	19	875.4	Stain	Odor	40.238756	-104.876559	Y
TB01-B05@19'	6/26/2024	19	1698	Stain	Odor	40.238813	-104.876545	Y
TB01-B06@19'	6/26/2024	19	1598	Stain	Odor	40.238857	-104.876683	Y
TB01-B07@19'	6/26/2024	19	1707	Stain	Odor	40.238727	-104.876702	Y
TB01-S01@8'	6/26/2024	8	315.4	Stain	Odor	40.238706	-104.876714	Y
TB01-S02@8'	6/26/2024	8	867.4	Stain	Odor	40.238679	-104.876643	Y
TB01-S03@8'	6/26/2024	8	276.8	Stain	Odor	40.238679	-104.876589	Y
TB01-S03@8'	6/26/2024	8	96.5	Stain	Odor	40.238679	-104.876589	Y
TB01-S05@8'	6/28/2024	8	11.2	NS	NO	40.23867	-104.876516	Y
TB01-S05@18'	6/28/2024	18	3.9	NS	NO	40.238670	-104.876516	Y
TB01-E03@8'	6/28/2024	8	8.8	NS	NO	40.238679	-104.876468	Y
TB01-E03@18'	6/28/2024	18	21.4	NS	NO	40.238679	-104.876468	Y
TB01-E04@8'	6/28/2024	8	7.6	NS	NO	40.238718	-104.876454	Y
TB01-E04@18'	6/28/2024	18	13.1	NS	NO	40.238718	-104.876454	Y
TB01-E05@8'	6/28/2024	8	3.1	NS	NO	40.238773	-104.876435	Y
TB01-E05@18'	6/28/2024	18	27.6	NS	NO	40.238773	-104.876435	Y
TB01-N02@8'	6/28/2024	8	284.6	Stain	Odor	40.238926	-104.876596	Y
TB01-N02@18'	6/28/2024	18	935.1	Stain	Odor	40.238926	-104.876596	Y
TB01-N03@8'	6/28/2024	8	126.3	Stain	Odor	40.23893	-104.876676	Y
TB01-N03@18'	6/28/2024	18	1130	Stain	Odor	40.23893	-104.876676	Y
TB01-E06@8'	7/2/2024	8	0.8	NS	NO	40.23883	-104.876423	Y
TB01-E06@18'	7/2/2024	18	18.7	NS	NO	40.23883	-104.876423	Y
TB01-E07@8'	7/2/2024	8	2.2	NS	NO	40.238884	-104.876414	Y
TB01-E07@18'	7/2/2024	18	0.9	NS	NO	40.238884	-104.876414	Y
TB01-N04@8'	7/2/2024	8	6.3	NS	NO	40.238924	-104.876514	Y
TB01-N04@18'	7/2/2024	18	3.6	NS	NO	40.238924	-104.876514	Y
TB01-N05@8'	7/2/2024	8	3.1	NS	NO	40.238919	-104.876442	Y

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PSC 15-10, FSV 24A 4 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)
TB01-N05@18'	7/2/2024	18	1.6	NS	NO	40.238919	-104.876442	Y
TB01-B08@20'	7/2/2024	20	801.7	Stain	Odor	40.238882	-104.876488	Y
TB01-B09@20'	7/2/2024	20	87.5	Stain	Odor	40.23869	-104.876498	Y
TB01-S01@18'	7/2/2024	18	405.9	Stain	Odor	40.238706	-104.876714	Y
TB01-S02@18'	7/2/2024	18	78.3	Stain	Odor	40.238679	-104.876643	Y
TB01-S03@18'	7/2/2024	18	251.6	Stain	Odor	40.23868	-104.876589	Y
TB01-S06@8'	7/17/2024	8	6.6	NS	NO	40.238586	-104.87663	Y
TB01-S06@18'	7/17/2024	18	30.0	Stain	NO	40.238586	-104.87663	Y
TB01-S07@8'	7/17/2024	8	4.5	NS	NO	40.238586	-104.876682	Y
TB01-S07@18'	7/17/2024	18	3.8	NS	NO	40.238586	-104.876682	Y
TB01-W03@8'	7/17/2024	8	5.9	NS	NO	40.238616	-104.876718	Y
TB01-W03@18'	7/17/2024	18	5.8	NS	NO	40.238616	-104.876718	Y
TB01-W04@8'	7/17/2024	8	3.1	NS	NO	40.238661	-104.876729	Y
TB01-W04@18'	7/17/2024	18	4.4	NS	NO	40.238661	-104.876729	Y
TB01-B10@20'	7/17/2024	8	712.1	Stain	Odor	40.238676	-104.876645	Y
TB01-B11@20'	7/17/2024	18	27.6	Stain	NO	40.238606	-104.876648	Y
TB01-S08@8'	7/18/2024	8	1.3	NS	NO	40.238585	-104.876592	Y
TB01-S08@18'	7/18/2024	18	3.9	NS	NO	40.238585	-104.876592	Y
TB01-E08@8'	7/18/2024	8	0.7	NS	NO	40.238667	-104.876519	Y
TB01-E08@18'	7/18/2024	18	1.3	NS	NO	40.238667	-104.876519	Y
TB01-E09@8'	7/18/2024	8	0.7	NS	NO	40.238614	-104.876525	Y
TB01-E09@18'	7/18/2024	18	2.2	NS	NO	40.238614	-104.876525	Y
TB01-B13@20'	7/18/2024	20	321.1	Stain	Odor	40.238623	-104.876551	Y
TB01-W05@8'	7/25/2024	8	3.0	NS	NO	40.239	-104.876728	Y
TB01-W05@18'	7/25/2024	18	472.8	Stain	Odor	40.239	-104.876728	Y
TB01-W06@8'	7/25/2024	8	2.8	NS	NO	40.238946	-104.876729	Y
TB01-W06@18'	7/25/2024	18	337.4	Stain	Odor	40.238946	-104.876729	Y
TB01-W07@8'	7/25/2024	8	41.3	NS	NO	40.23889	-104.876693	Y
TB01-W07@18'	7/25/2024	18	946.8	Stain	Odor	40.23889	-104.876693	Y
TB01-B14@20'	7/25/2024	20	1142	Stain	Odor	40.238949	-104.876679	Y
TB01-B15@20'	7/25/2024	20	1308	Stain	Odor	40.239012	-104.876676	Y
TB01-B16@20'	7/31/2024	20	968.4	Stain	Odor	40.239014	-104.876532	Y
TB01-W08@8'	7/31/2024	8	10.5	Stain	Odor	40.239096	-104.876734	Y
TB01-W08@18'	7/31/2024	18	257.4	Stain	Odor	40.239096	-104.876734	Y
TB01-W09@8'	7/31/2024	8	27.1	Stain	Odor	40.239022	-104.87674	Y

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PSC 15-10, FSV 24A 4 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)
TB01-W09@18'	7/31/2024	18	1189	Stain	Odor	40.239022	-104.87674	Y
TB01-W10@8'	7/31/2024	8	33.0	Stain	Odor	40.23896	-104.876746	Y
TB01-W10@18'	7/31/2024	18	482	Stain	Odor	40.23896	-104.876746	Y
TB01-N06@8'	8/1/2024	8	2.1	NS	NO	40.239081	-104.876493	Y
TB01-N06@18'	8/1/2024	18	1.8	NS	NO	40.239081	-104.876493	Y
TB01-N07@8'	8/1/2024	8	1.8	NS	NO	40.239093	-104.876557	Y
TB01-N07@18'	8/1/2024	18	1.8	NS	NO	40.239093	-104.876557	Y
TB01-N08@8'	8/1/2024	8	1.0	NS	NO	40.239109	-104.876628	Y
TB01-N08@18'	8/1/2024	18	0.4	NS	NO	40.239109	-104.876628	Y
TB01-N09@8'	8/1/2024	8	0.6	NS	NO	40.23911	-104.876685	Y
TB01-N09@18'	8/1/2024	18	2.1	NS	NO	40.23911	-104.876685	Y
TB01-E10@8'	8/1/2024	8	1.4	NS	NO	40.239043	-104.876473	Y
TB01-E10@18'	8/1/2024	18	1.1	NS	NO	40.239043	-104.876473	Y
TB01-E11@8'	8/1/2024	8	0.3	NS	NO	40.238992	-104.876474	Y
TB01-E11@18'	8/1/2024	18	1.5	NS	NO	40.238992	-104.876474	Y
TB01-E12@8'	8/1/2024	8	0.9	NS	NO	40.238944	-104.876484	Y
TB01-E12@18'	8/1/2024	18	3.9	NS	NO	40.238944	-104.876484	Y
MISCELLANEOUS SAMPLES								
ECD	10/23/2023	0.5	1.2	NS	NO	40.238772	-104.876415	N
MH01-INLET	10/23/2023	0.5	0.7	NS	NO	40.238500	-104.876658	N
MH02-INLET	10/23/2023	0.5	2.0	NS	NO	40.238513	-104.87663	N
POTHOLE SAMPLES								
FL01@4'	10/23/2023	4	169.0	Stain	Odor	40.23877047	-104.876682	Y
FL01-B01@6.5'	12/6/2023	6.5	1128.0	Stain	Odor	40.238768	-104.876684	Y
FL01-S01@3.5'	12/6/2023	3.5	32.6	NS	NO	40.238751	-104.876682	Y
FL01-E01@3.5'	12/6/2023	3.5	1.3	NS	NO	40.238770	-104.876658	Y
FL01-N01@3.5'	12/6/2023	3.5	1.4	NS	NO	40.238793	-104.876684	Y
FL01-W01@3.5'	12/6/2023	3.5	1.0	NS	NO	40.23877	-104.876709	Y
FL01-B01@10'	12/28/2023	10	805.7	Stain	Odor	40.238771	-104.876684	Y
FL01-N01@9'	12/28/2023	9	258.2	Stain	Odor	40.238792	-104.876686	Y
FL01-E01@9'	12/28/2023	9	12.7	NS	NO	40.238767	-104.876658	Y
FL01-S01@9'	12/28/2023	9	596.2	Stain	Odor	40.238752	-104.876686	Y
FL01-W01@9'	12/28/2023	9	86.7	Stain	Odor	40.238769	-104.876713	Y
FL01-B01@13'	2/2/2024	13	168.8	Stain	Odor	40.23877	-104.876684	Y
FL01-S02@3.5'	2/2/2024	3.5	1.9	NS	NO	40.238729	-104.876689	Y

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PSC 15-10, FSV 24A 4 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)
FL01-S02@9'	2/2/2024	9	422.1	Stain	Odor	40.238730	-104.876689	Y
FL01-E02@3.5'	2/2/2024	3.5	5.2	NS	NO	40.238746	-104.876637	Y
FL01-E02@9'	2/2/2024	9	5.3	NS	NO	40.238746	-104.876637	Y
FL02-A(FSV4,33-10,UNK)@4'	6/6/2024	4	0.2	NS	NO	40.238592	-104.876642	Y
FL02-B(FSV4,33-10,UNK)@4'	6/6/2024	4	0.0	NS	NO	40.238629	-104.876628	Y
FL02-C(FSV4-33-10,UNK)@4'	6/6/2024	4	0.1	NS	NO	40.238644	-104.87656	Y
FL02-D(FSV4,33-10,UNK)@5'	6/6/2024	5	0.2	NS	NO	40.238628	-104.876559	Y
FL03-A(FSV4)@5'	6/6/2024	5	117.6	Stain	Odor	40.238723	-104.876567	Y
BACKGROUND SOIL SAMPLES								
TB-BG01@0.5'	10/23/2023	0.5	3.0	NS	NO	40.238953	-104.876637	Y
NATIVE-BG01@3'	10/23/2023	3	1.6	NS	NO	40.238715	-104.876403	Y
NATIVE-BG01@6'	10/23/2023	6	1.3	NS	NO	40.238715	-104.876403	Y
NATIVE-BG02@3'	10/23/2023	3	0.6	NS	NO	40.238421	-104.87658	Y
NATIVE-BG02@6'	10/23/2023	6	0.4	NS	NO	40.238421	-104.87658	Y
NATIVE-BG03@5'	12/28/2023	5	0.0	NS	NO	40.238826	-104.876469	Y
NATIVE-BG03@10'	12/28/2023	10	0.0	NS	NO	40.238826	-104.876469	Y
NATIVE-BG04@5'	12/28/2023	5	0.0	NS	NO	40.238703	-104.876429	Y
NATIVE-BG04@10'	12/28/2023	10	0.0	NS	NO	40.238703	-104.876429	Y
NATIVE-BG05@5'	12/28/2023	5	0.0	NS	NO	40.238577	-104.876437	Y
NATIVE-BG05@10'	12/28/2023	10	0.0	NS	NO	40.238577	-104.876437	Y
NATIVE-BG06@13'	2/2/2024	13	0.5	NS	NO	40.238855	-104.876469	Y
NATIVE-BG07@13'	2/2/2024	13	0.4	NS	NO	40.238751	-104.876439	Y
NATIVE-BG08@13'	2/2/2024	13	0.4	NS	NO	40.238604	-104.87638	Y
NATIVE-BG09@13'	2/2/2024	13	0.5	NS	NO	40.238454	-104.876403	Y
NATIVE-BG010@13'	2/2/2024	13	NA	NS	NO	40.238401	-104.876528	Y
NATIVE-BG11@15'	7/18/2024	15	2.3	NS	NO	40.238559	-104.876246	Y
NATIVE-BG11@18'	7/18/2024	18	2.0	NS	NO	40.238559	-104.876246	Y
NATIVE-BG12@15'	7/18/2024	15	1.3	NS	NO	40.238644	-104.876218	Y
NATIVE-BG12@18'	7/18/2024	18	1.2	NS	NO	40.238644	-104.876218	Y
NATIVE-BG13@15'	7/18/2024	15	0.8	NS	NO	40.238782	-104.876191	Y
NATIVE-BG13@18'	7/18/2024	18	1.1	NS	NO	40.238782	-104.876191	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PSC 15-10, FSV 24A 4 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)
----------------------	------	--------------------	----------------------	-----------------------	--------------------------	----------	-----------	---

ppm - parts per million

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	10/23/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
AST02@0.5'	10/23/2023	0.5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@5'	10/23/2023	5	6.13	386	109	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.0101	0.039
PWV-W01@2.5'	10/23/2023	2.5	1770	3420	1340	0.0570	<0.0500	<0.0500	27.6	17.2	8.13	1.60
SEPARATOR SAMPLES												
SEP01-INLET@4'	10/23/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
SEP01-OUTLET@4'	10/23/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
TANK BATTERY SAMPLES												
B01@4'	12/6/2023	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B02@5'	12/6/2023	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
B03@6'	12/6/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
N01@2'	12/6/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
E01@2'	12/6/2023	2	0.603	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
E02@3'	12/6/2023	3	16.9	407	233	<0.00200	<0.00200	<0.00200	0.0912	0.0122	1.53	0.056
W01@3'	12/6/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
W02@2'	12/6/2023	2	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
S01@3'	12/6/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
S02@3'	12/6/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
E03@3'	12/28/2023	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
TB01-B01@20'	6/5/2024	20	2830	2030	896	<0.0500	<0.0500	<0.0500	0.200	<0.0500	<0.0500	0.018
TB01-B02@20'	6/5/2024	20	137	172	<100	<0.00200	<0.00200	<0.00200	0.00488	<0.00200	<0.00200	0.009
TB01-E01@18'	6/5/2024	18	4.08	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E01@8'	6/5/2024	8	11.0	64.4	<100	0.00550	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.006
TB01-E02@18'	6/5/2024	18	70.3	71.4	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E02@8'	6/5/2024	8	580	2960	1160	<0.00200	<0.00200	<0.00200	0.0116	<0.00200	<0.00200	0.012
TB01-N01@18'	6/5/2024	18	1500	2020	1170	0.359	0.0615	1.56	0.0985	3.80	<0.0500	2.01
TB01-N01@8'	6/5/2024	8	1450	2000	1120	0.0710	<0.0500	0.651	0.0730	18.9	3.55	2.00
TB01-S01@18'	6/5/2024	18	1.37	28.9	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S01@8'	6/5/2024	8	5.98	77.4	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W01@18'	6/5/2024	18	3.20	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.003
TB01-W01@8'	6/5/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W02@18'	6/5/2024	18	8.29	60.5	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.002
TB01-W02@8'	6/5/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.004
TB01-B03@19'	6/26/2024	19	68.3	143	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B04@19'	6/26/2024	19	29.8	94.8	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B05@19'	6/26/2024	19	626	618	<100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.006
TB01-B06@19'	6/26/2024	19	1160	1330	606	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.004
TB01-B07@19'	6/26/2024	19	3390	3210	1660	2.28	<0.500	9.58	52.4	56.5	19.2	2.56
TB01-S01@8'	6/26/2024	8	0.835	25.3	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S02@8'	6/26/2024	8	434	1060	553	<0.00200	0.00760	0.00222	0.0745	0.00214	0.160	0.005

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
TB01-S03@8'	6/26/2024	8	<0.200	123	109	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S04@8'	6/26/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E03@18'	6/28/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E03@8'	6/28/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E04@18'	6/28/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E04@8'	6/28/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E05@18'	6/28/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E05@8'	6/28/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N02@18'	6/28/2024	18	74.8	207	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.003
TB01-N02@8'	6/28/2024	8	19.0	81.6	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N03@18'	6/28/2024	18	62.0	172	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.004
TB01-N03@8'	6/28/2024	8	2.27	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S05@18'	6/28/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S05@8'	6/28/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B08@20'	7/2/2024	20	219	386	<100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.004
TB01-B09@20'	7/2/2024	20	39.1	207	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.003
TB01-E06@18'	7/2/2024	18	1.53	64.2	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E06@8'	7/2/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E07@18'	7/2/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E07@8'	7/2/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N04@18'	7/2/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N04@8'	7/2/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N05@18'	7/2/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N05@8'	7/2/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S01@18'	7/2/2024	18	2.66	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S02@18'	7/2/2024	18	5.82	36.8	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S03@18'	7/2/2024	18	0.873	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B10@20'	7/17/2024	20	38.1	141	<100	<0.00200	<0.00200	<0.00200	0.00408	<0.00200	<0.00200	0.004
TB01-B11@20'	7/17/2024	20	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S06@18'	7/17/2024	18	1.83	162	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S06@8'	7/17/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S07@18'	7/17/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S07@8'	7/17/2024	8	<0.200	74.2	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W03@18'	7/17/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W03@8'	7/17/2024	8	<0.200	32.1	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W04@18'	7/17/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W04@8'	7/17/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B13@20'	7/18/2024	20	122	466	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.007
TB01-E08@18'	7/18/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E08@8'	7/18/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E09@18'	7/18/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E09@8'	7/18/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
TB01-S08@18'	7/18/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-S08@8'	7/18/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B14@20'	7/25/2024	20	335	303	<100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.005
TB01-B15@20'	7/25/2024	20	141	169	<100	<0.00200	0.00396	<0.00200	0.0131	<0.00200	<0.00200	0.003
TB01-W05@18'	7/25/2024	18	18.1	77.2	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.002
TB01-W05@8'	7/25/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W06@18'	7/25/2024	18	3.38	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W06@8'	7/25/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W07@18'	7/25/2024	18	29.6	70.8	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W07@8'	7/25/2024	8	0.793	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-B16@20'	7/31/2024	20	94.5	185	<100	<0.00200	<0.00200	<0.00200	0.0147	<0.00200	<0.00200	<0.002
TB01-W08@18'	7/31/2024	18	1.58	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W08@8'	7/31/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W09@18'	7/31/2024	18	109	110	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W09@8'	7/31/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W10@18'	7/31/2024	18	2.44	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-W10@8'	7/31/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E10@18'	8/1/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E10@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E11@18'	8/1/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E11@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E12@18'	8/1/2024	18	<0.200	32.7	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-E12@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N06@18'	8/1/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N06@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N07@18'	8/1/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N07@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N08@18'	8/1/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N08@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N09@18'	8/1/2024	18	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
TB01-N09@8'	8/1/2024	8	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
POTHOLE SAMPLE												
FL01@4'	10/23/2023	4	0.639	34.2	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.012
FL01-B01@6.5'	12/6/2023	6.5	225	524	122	NA	NA	NA	NA	NA	NA	0.022
FL01-S01@3.5'	12/6/2023	3.5	1.48	57.5	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-E01@3.5'	12/6/2023	3.5	<0.200	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-N01@3.5'	12/6/2023	3.5	<0.200	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-W01@3.5'	12/6/2023	3.5	<0.200	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-B01@10'	12/28/2023	10	162	333	<100	NA	NA	NA	NA	NA	NA	0.003
FL01-N01@9'	12/28/2023	9	7.27	29.9	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-E01@9'	12/28/2023	9	<0.200	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-S01@9'	12/28/2023	9	493	1470	540	<0.00200	0.00374	0.00348	0.339	0.00512	0.00378	0.020

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO ⁺ (mg/kg)	TPH-DRO ⁺ (mg/kg)	TPH-RRO ⁺ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4- Trimethyl benzene (mg/kg)	1,3,5- Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
FL01-W01@9'	12/28/2023	9	1.29	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-B01@13'	2/2/2024	13	3.61	27.6	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-S02@3.5'	2/2/2024	3.5	<0.200	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-S02@9'	2/2/2024	9	298	1150	584	NA	NA	NA	NA	NA	NA	0.180
FL01-E02@3.5'	2/2/2024	3.5	0.207	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL01-E02@9'	2/2/2024	9	<0.200	<25.0	<100	NA	NA	NA	NA	NA	NA	<0.002
FL02-A(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL02-B(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.002
FL02-C(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL02-D(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
FL03-A(FSV4)@5'	6/6/2024	5	0.405	105	222	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.003

Notes:

ECMC - Energy and Carbon Management Commission
PGSSLs - Protection of Groundwater Soil Screening Level Concentrations
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
RRO - residual range organics
+Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

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

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
ABOVEGROUND STORAGE TANK SAMPLES																
AST01@0.5'	10/23/2023	0.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
AST02@0.5'	10/23/2023	0.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.009	0.023	<0.020
PRODUCED WATER VESSEL SAMPLES																
PWV-B01@5'	10/23/2023	5	0.067	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.069	<0.020	0.285	0.397	<0.020
PWV-W01@2.5'	10/23/2023	2.5	0.534	0.070	<0.010	<0.040	<0.040	0.059	0.049	<0.040	<0.020	0.682	<0.040	3.55	6.92	<0.040
SEPARATOR SAMPLES																
SEP01-INLET@4'	10/23/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-OUTLET@4'	10/23/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TANK BATTERY SAMPLES																
B01@4'	12/6/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B02@5'	12/6/2023	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
B03@6'	12/6/2023	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
N01@2'	12/6/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E01@2'	12/6/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.006	<0.020
E02@3'	12/6/2023	3	0.127	<0.020	<0.005	<0.020	<0.020	<0.020	0.02	<0.020	<0.020	0.136	<0.020	0.445	0.553	<0.020
W01@3'	12/6/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
W02@2'	12/6/2023	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.002	<0.020
S01@3'	12/6/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
S02@3'	12/6/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
E03@3'	12/28/2023	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-B01@20'	6/5/2024	20	0.072	0.087	0.009	<0.020	<0.020	<0.020	0.059	<0.020	0.048	0.903	<0.020	4.45	12.7	0.081
TB01-B02@20'	6/5/2024	20	0.079	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.090	<0.020	0.359	0.888	<0.020
TB01-E01@18'	6/5/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.057	<0.020
TB01-E01@8'	6/5/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.031	<0.020	0.030	0.072	<0.020
TB01-E02@18'	6/5/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.028	<0.020	0.024	0.040	<0.020
TB01-E02@8'	6/5/2024	8	<0.020	0.066	<0.005	<0.020	<0.020	<0.020	0.051	<0.020	0.027	0.872	<0.020	2.21	3.89	0.065
TB01-N01@18'	6/5/2024	18	0.561	0.086	0.009	<0.020	<0.020	0.050	0.042	<0.020	<0.020	0.840	<0.020	4.48	8.57	0.049
TB01-N01@8'	6/5/2024	8	0.550	0.179	0.097	<0.020	<0.020	<0.020	0.041	<0.020	<0.020	0.640	<0.020	7.11	13.4	0.052
TB01-S01@18'	6/5/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.003	0.005	<0.020
TB01-S01@8'	6/5/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W01@18'	6/5/2024	18	<0.020	0.041	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.028	0.076	<0.020
TB01-W01@8'	6/5/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W02@18'	6/5/2024	18	<0.020	0.033	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	<0.020	0.037	0.085	<0.020
TB01-W02@8'	6/5/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-B03@19'	6/26/2024	19	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	<0.020	0.063	0.137	<0.020
TB01-B04@19'	6/26/2024	19	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.030	0.070	<0.020
TB01-B05@19'	6/26/2024	19	0.106	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.221	<0.020	1.25	3.45	<0.020
TB01-B06@19'	6/26/2024	19	0.396	0.036	0.013	0.061	0.042	<0.020	0.044	0.033	<0.020	0.591	0.034	2.50	6.11	<0.020

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
TB01-B07@19'	6/26/2024	19	0.720	0.084	<0.005	<0.020	<0.020	<0.020	0.082	<0.020	0.021	0.810	<0.020	4.95	9.87	0.071
TB01-S01@8'	6/26/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.019	0.038	<0.020
TB01-S02@8'	6/26/2024	8	0.397	0.050	<0.005	<0.020	<0.020	<0.020	0.039	<0.020	<0.020	0.416	<0.020	0.887	1.72	0.031
TB01-S03@8'	6/26/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.016	0.017	<0.020
TB01-S04@8'	6/26/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E03@18'	6/28/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E03@8'	6/28/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E04@18'	6/28/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E04@8'	6/28/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E05@18'	6/28/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E05@8'	6/28/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N02@18'	6/28/2024	18	0.041	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.073	<0.020	0.339	0.909	<0.020
TB01-N02@8'	6/28/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.011	0.034	<0.020
TB01-N03@18'	6/28/2024	18	0.036	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.067	<0.020	0.449	1.24	<0.020
TB01-N03@8'	6/28/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.007	0.020	<0.020
TB01-S05@18'	6/28/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S05@8'	6/28/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-B08@20'	7/2/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.133	<0.020	0.789	0.010	<0.020
TB01-B09@20'	7/2/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.025	0.019	<0.020
TB01-E06@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.003	<0.002	<0.020
TB01-E06@8'	7/2/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E07@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E07@8'	7/2/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N04@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N04@8'	7/2/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N05@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N05@8'	7/2/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S01@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.039	0.093	<0.020
TB01-S02@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.008	0.016	<0.020
TB01-S03@18'	7/2/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.003	<0.020
TB01-B10@20'	7/17/2024	20	0.104	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.140	<0.020	0.431	1.32	<0.020
TB01-B11@20'	7/17/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S06@18'	7/17/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S06@8'	7/17/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S07@18'	7/17/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S07@8'	7/17/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W03@18'	7/17/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W03@8'	7/17/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W04@18'	7/17/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
TB01-W04@8'	7/17/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-B13@20'	7/18/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.111	<0.020	0.420	0.999	<0.020
TB01-E08@18'	7/18/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E08@8'	7/18/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E09@18'	7/18/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E09@8'	7/18/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S08@18'	7/18/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-S08@8'	7/18/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-B14@20'	7/25/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.140	<0.020	1.19	3.19	<0.020
TB01-B15@20'	7/25/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.079	<0.020	0.677	1.70	<0.020
TB01-W05@18'	7/25/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.051	<0.020	0.253	0.715	<0.020
TB01-W05@8'	7/25/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W06@18'	7/25/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.059	0.065	<0.020
TB01-W06@8'	7/25/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W07@18'	7/25/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.039	<0.020	0.189	0.462	<0.020
TB01-W07@8'	7/25/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-B16@20'	7/31/2024	20	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.097	<0.020	0.858	2.62	<0.020
TB01-W08@18'	7/31/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.021	<0.020	0.052	0.118	<0.020
TB01-W08@8'	7/31/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W09@18'	7/31/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.071	<0.020	0.323	0.463	<0.020
TB01-W09@8'	7/31/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-W10@18'	7/31/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.041	0.109	<0.020
TB01-W10@8'	7/31/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E10@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E10@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E11@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E11@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E12@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-E12@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N06@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N06@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	0.028	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N07@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N07@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N08@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N08@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N09@18'	8/1/2024	18	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
TB01-N09@8'	8/1/2024	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
POTHOLE SAMPLE																
FL01@4'	10/23/2023	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.024	0.053	<0.020

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/Kg)	Anthracene (mg/Kg)	Benzo (a) anthracene (mg/Kg)	Benzo (b) fluoranthene (mg/Kg)	Benzo (k) fluoranthene (mg/Kg)	Benzo (a) pyrene (mg/Kg)	Chrysene (mg/Kg)	Dibenz (a,h) anthracene (mg/Kg)	Fluoranthene (mg/Kg)	Fluorene (mg/Kg)	Indeno (1,2,3-cd) pyrene (mg/Kg)	1-Methyl naphthalene (mg/Kg)	2-Methyl naphthalene (mg/Kg)	Pyrene (mg/Kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
FL01-B01@6.5'	12/6/2023	6.5	0.169	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.252	<0.020	1.42	3.00	<0.020
FL01-S01@3.5'	12/6/2023	3.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	0.003	<0.020
FL01-E01@3.5'	12/6/2023	3.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-N01@3.5'	12/6/2023	3.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-W01@3.5'	12/6/2023	3.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-B01@10'	12/28/2023	10	<0.020	<0.020	0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.109	<0.020	0.436	0.997	<0.020
FL01-N01@9'	12/28/2023	9	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.039	0.065	<0.020
FL01-E01@9'	12/28/2023	9	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-S01@9'	12/28/2023	9	0.063	0.069	0.055	<0.020	<0.020	<0.020	<0.020	<0.020	0.038	0.636	<0.020	3.51	7.04	0.026
FL01-W01@9'	12/28/2023	9	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-B01@13'	2/2/2024	13	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-S02@3.5'	2/2/2024	3.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.006	0.011	<0.020
FL01-S02@9'	2/2/2024	9	0.328	<0.020	<0.005	<0.020	<0.020	0.046	0.039	<0.020	<0.020	0.483	<0.020	2.04	4.31	0.034
FL01-E02@3.5'	2/2/2024	3.5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL01-E02@9'	2/2/2024	9	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL02-A(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL02-B(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.003	0.006	<0.020
FL02-C(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL02-D(FSV4,33-10,UNK)@4'	6/6/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
FL03-A(FSV4)@5'	6/6/2024	5	0.951	0.079	0.028	<0.020	<0.020	<0.020	0.066	<0.020	0.112	0.385	<0.020	0.006	0.004	0.121

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB)			0.125	0.159	7.85	NA
Site-Specific Background Limits (3-6')			0.800	0.726	8.24	0.183
Site-Specific Background Limits (5-10')			1.52	0.726	8.19	0.183
Site-Specific Background Limits (13')			1.59	1.04	8.21	NA
Site-Specific Background Limits (15-18')			0.223	1.95	8.62	NA
ABOVEGROUND STORAGE TANK SAMPLES						
AST01@0.5'	10/23/2023	0.5	1.32	0.123	4.45	<0.100
AST02@0.5'	10/23/2023	0.5	0.0807	0.395	5.49	<0.0991
PRODUCED WATER VESSEL SAMPLES						
PWV-B01@5'	10/23/2023	5	0.635	1.47	7.86	0.154
PWV-W01@2.5'	10/23/2023	2.5	1.83	28.5	7.61	2.60
SEPARATOR SAMPLES						
SEP01-INLET@4'	10/23/2023	4	0.287	0.164	8.07	<0.0991
SEP01-OUTLET@4'	10/23/2023	4	0.634	2.45	8.13	0.760
TANK BATTERY SAMPLES						
B01@4'	12/6/2023	4	NA	0.460	8.17	0.160
B02@5'	12/6/2023	5	NA	1.03	8.17	0.564
B03@6'	12/6/2023	6	NA	1.36	7.75	0.157
N01@2'	12/6/2023	2	NA	1.38	7.76	0.132
E01@2'	12/6/2023	2	NA	0.136	7.01	0.282
E02@3'	12/6/2023	3	NA	6.05	7.54	0.263
W01@3'	12/6/2023	3	NA	1.06	6.99	<0.101
W02@2'	12/6/2023	2	NA	1.76	7.72	0.395
S01@3'	12/6/2023	3	NA	0.42	8.24	0.152
S02@3'	12/6/2023	3	NA	0.375	8.26	0.266
E03@3'	12/28/2023	3	NA	0.0642	8.27	<0.100
TB01-B01@20'	6/5/2024	20	0.330	1.21	8.20	<0.100
TB01-B02@20'	6/5/2024	20	0.292	2.10	7.99	<0.100
TB01-E01@18'	6/5/2024	18	0.132	0.292	8.14	<0.0990
TB01-E01@8'	6/5/2024	8	NA	NA	7.00	<0.0997
TB01-E02@18'	6/5/2024	18	0.260	2.02	8.35*	<0.100
TB01-E02@8'	6/5/2024	8	2.11	0.847	7.51	<0.0999
TB01-N01@18'	6/5/2024	18	0.202	1.84	7.67	<0.0994
TB01-N01@8'	6/5/2024	8	0.168	0.516	7.26	0.113
TB01-S01@18'	6/5/2024	18	1.29	1.40	8.31*	<0.100
TB01-S01@8'	6/5/2024	8	NA	NA	8.39	0.119
TB01-W01@18'	6/5/2024	18	0.0989	0.647	7.93	<0.0986
TB01-W01@8'	6/5/2024	8	NA	NA	8.46	0.112
TB01-W02@18'	6/5/2024	18	NA	NA	7.33	<0.0993
TB01-W02@8'	6/5/2024	8	NA	NA	8.41	<0.100

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB)			0.125	0.159	7.85	NA
Site-Specific Background Limits (3-6')			0.800	0.726	8.24	0.183
Site-Specific Background Limits (5-10')			1.52	0.726	8.19	0.183
Site-Specific Background Limits (13')			1.59	1.04	8.21	NA
Site-Specific Background Limits (15-18')			0.223	1.95	8.62	NA
TB01-B03@19'	6/26/2024	19	NA	NA	NA	<0.100
TB01-B04@19'	6/26/2024	19	NA	NA	NA	<0.0985
TB01-B05@19'	6/26/2024	19	NA	NA	NA	<0.101
TB01-B06@19'	6/26/2024	19	NA	NA	NA	<0.0996
TB01-B07@19'	6/26/2024	19	NA	NA	NA	0.342
TB01-S01@8'	6/26/2024	8	NA	NA	NA	0.229
TB01-S02@8'	6/26/2024	8	NA	NA	NA	<0.101
TB01-S03@8'	6/26/2024	8	NA	NA	NA	0.696
TB01-S04@8'	6/26/2024	8	NA	NA	NA	<0.0992
TB01-E03@18'	6/28/2024	18	NA	NA	6.09	<0.0997
TB01-E03@8'	6/28/2024	8	NA	NA	6.91	<0.100
TB01-E04@18'	6/28/2024	18	NA	NA	5.27	<0.0986
TB01-E04@8'	6/28/2024	8	NA	NA	7.48	<0.101
TB01-E05@18'	6/28/2024	18	NA	NA	5.08	<0.100
TB01-E05@8'	6/28/2024	8	NA	NA	8.22	<0.0994
TB01-N02@18'	6/28/2024	18	NA	NA	8.44*	<0.100
TB01-N02@8'	6/28/2024	8	NA	NA	8.28	<0.0993
TB01-N03@18'	6/28/2024	18	NA	NA	8.15	<0.0996
TB01-N03@8'	6/28/2024	8	NA	NA	8.08	<0.100
TB01-S05@18'	6/28/2024	18	NA	NA	5.28	<0.0989
TB01-S05@8'	6/28/2024	8	NA	NA	4.77	<0.0988
TB01-B08@20'	7/2/2024	20	NA	NA	8.24	<0.0999
TB01-B09@20'	7/2/2024	20	NA	NA	3.12	<0.0992
TB01-E06@18'	7/2/2024	18	NA	NA	3.60	<0.100
TB01-E06@8'	7/2/2024	8	NA	NA	6.00	<0.0983
TB01-E07@18'	7/2/2024	18	NA	NA	4.49	<0.0994
TB01-E07@8'	7/2/2024	8	NA	NA	7.33	<0.0996
TB01-N04@18'	7/2/2024	18	NA	NA	4.02	<0.101
TB01-N04@8'	7/2/2024	8	NA	NA	4.34	<0.0990
TB01-N05@18'	7/2/2024	18	NA	NA	3.74	<0.0998
TB01-N05@8'	7/2/2024	8	NA	NA	4.39	<0.100
TB01-S01@18'	7/2/2024	18	NA	NA	8.04	<0.100
TB01-S02@18'	7/2/2024	18	NA	NA	6.08	<0.100
TB01-S03@18'	7/2/2024	18	NA	NA	5.21	<0.100
TB01-B10@20'	7/17/2024	20	NA	NA	8.34*	<0.101

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB)			0.125	0.159	7.85	NA
Site-Specific Background Limits (3-6')			0.800	0.726	8.24	0.183
Site-Specific Background Limits (5-10')			1.52	0.726	8.19	0.183
Site-Specific Background Limits (13')			1.59	1.04	8.21	NA
Site-Specific Background Limits (15-18')			0.223	1.95	8.62	NA
TB01-B11@20'	7/17/2024	20	NA	NA	8.46*	<0.0998
TB01-S06@18'	7/17/2024	18	NA	NA	3.79	<0.101
TB01-S06@8'	7/17/2024	8	NA	NA	8.33	0.137
TB01-S07@18'	7/17/2024	18	NA	NA	4.68	<0.0995
TB01-S07@8'	7/17/2024	8	NA	NA	8.03	<0.100
TB01-W03@18'	7/17/2024	18	NA	NA	4.90	<0.0991
TB01-W03@8'	7/17/2024	8	NA	NA	8.26	<0.0994
TB01-W04@18'	7/17/2024	18	NA	NA	8.11	<0.0996
TB01-W04@8'	7/17/2024	8	NA	NA	8.29	<0.100
TB01-B13@20'	7/18/2024	20	NA	NA	8.31*	0.109
TB01-E08@18'	7/18/2024	18	NA	NA	4.62	<0.101
TB01-E08@8'	7/18/2024	8	NA	NA	5.21	<0.0996
TB01-E09@18'	7/18/2024	18	NA	NA	4.20	<0.987
TB01-E09@8'	7/18/2024	8	NA	NA	6.89	<0.100
TB01-S08@18'	7/18/2024	18	NA	NA	7.65	<0.0996
TB01-S08@8'	7/18/2024	8	NA	NA	8.41	0.392
TB01-B14@20'	7/25/2024	20	NA	NA	8.18	<0.0999
TB01-B15@20'	7/25/2024	20	NA	NA	8.03	<0.0993
TB01-W05@18'	7/25/2024	18	NA	NA	8.29	<0.0998
TB01-W05@8'	7/25/2024	8	NA	NA	8.16	<0.100
TB01-W06@18'	7/25/2024	18	NA	NA	8.29	<0.0993
TB01-W06@8'	7/25/2024	8	NA	NA	8.29	<0.0995
TB01-W07@18'	7/25/2024	18	NA	NA	8.32*	<0.100
TB01-W07@8'	7/25/2024	8	NA	NA	7.50	<0.0997
TB01-B16@20'	7/31/2024	20	NA	NA	8.00	<0.0987
TB01-W08@18'	7/31/2024	18	NA	NA	8.23	<0.0991
TB01-W08@8'	7/31/2024	8	NA	NA	8.18	<0.101
TB01-W09@18'	7/31/2024	18	NA	NA	8.30	<0.100
TB01-W09@8'	7/31/2024	8	NA	NA	8.28	<0.0990
TB01-W10@18'	7/31/2024	18	NA	NA	4.24	<0.0999
TB01-W10@8'	7/31/2024	8	NA	NA	7.82	0.232
TB01-E10@18'	8/1/2024	18	NA	NA	4.87	<0.0987
TB01-E10@8'	8/1/2024	8	NA	NA	7.28	<0.0986
TB01-E11@18'	8/1/2024	18	NA	NA	4.07	<0.0995
TB01-E11@8'	8/1/2024	8	NA	NA	6.40	<0.0994

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB)			0.125	0.159	7.85	NA
Site-Specific Background Limits (3-6')			0.800	0.726	8.24	0.183
Site-Specific Background Limits (5-10')			1.52	0.726	8.19	0.183
Site-Specific Background Limits (13')			1.59	1.04	8.21	NA
Site-Specific Background Limits (15-18')			0.223	1.95	8.62	NA
TB01-E12@18'	8/1/2024	18	NA	NA	3.69	<0.100
TB01-E12@8'	8/1/2024	8	NA	NA	7.13	<0.100
TB01-N06@18'	8/1/2024	18	NA	NA	4.32	<0.0990
TB01-N06@8'	8/1/2024	8	NA	NA	7.25	<0.100
TB01-N07@18'	8/1/2024	18	NA	NA	4.33	<0.0985
TB01-N07@8'	8/1/2024	8	NA	NA	8.50	<0.0994
TB01-N08@18'	8/1/2024	18	NA	NA	4.14	<0.100
TB01-N08@8'	8/1/2024	8	NA	NA	7.99	<0.0988
TB01-N09@18'	8/1/2024	18	NA	NA	3.93	<0.0993
TB01-N09@8'	8/1/2024	8	NA	NA	6.36	<0.0990
POTHOLE SAMPLE						
FL01@4'	10/23/2023	4	0.770	4.14	8.04	0.304
FL01-B01@6.5'	12/6/2023	6.5	NA	NA	NA	0.107
FL01-S01@3.5'	12/6/2023	3.5	NA	NA	NA	0.319
FL01-E01@3.5'	12/6/2023	3.5	NA	NA	NA	<0.0993
FL01-N01@3.5'	12/6/2023	3.5	NA	NA	NA	0.222
FL01-W01@3.5'	12/6/2023	3.5	NA	NA	NA	<0.0985
FL01-B01@10'	12/28/2023	10	NA	NA	NA	<0.0999
FL01-N01@9'	12/28/2023	9	NA	NA	NA	<0.100
FL01-E01@9'	12/28/2023	9	NA	NA	NA	<0.0986
FL01-S01@9'	12/28/2023	9	1.2	3.43	7.57	0.151
FL01-W01@9'	12/28/2023	9	NA	NA	NA	<0.101
FL01-B01@13'	2/2/2024	13	NA	NA	NA	<0.0985
FL01-S02@3.5'	2/2/2024	3.5	NA	NA	NA	0.149
FL01-S02@9'	2/2/2024	9	NA	NA	NA	0.343
FL01-E02@3.5'	2/2/2024	3.5	NA	NA	NA	<0.101
FL01-E02@9'	2/2/2024	9	NA	NA	NA	<0.0997
FL02-A(FSV4,33-10,UNK)@4'	6/6/2024	4	0.827	0.741	8.46	0.398
FL02-B(FSV4,33-10,UNK)@4'	6/6/2024	4	0.697	1.22	8.46	0.442
FL02-C(FSV4,33-10,UNK)@4'	6/6/2024	4	0.416	0.121	8.54	0.290
FL02-D(FSV4,33-10,UNK)@4'	6/6/2024	4	0.553	0.683	8.62	0.924
FL03-A(FSV4)@5'	6/6/2024	5	2.43	0.456	8.40	0.376
BACKGROUND SAMPLES						
TB-BG01@0.5'	10/23/2023	0.5	0.125	0.159	7.85	<0.100
NATIVE-BG01@3'	10/23/2023	3	0.292	0.455	8.24	<0.0986

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits (TB)			0.125	0.159	7.85	NA
Site-Specific Background Limits (3-6')			0.800	0.726	8.24	0.183
Site-Specific Background Limits (5-10')			1.52	0.726	8.19	0.183
Site-Specific Background Limits (13')			1.59	1.04	8.21	NA
Site-Specific Background Limits (15-18')			0.223	1.95	8.62	NA
NATIVE-BG01@6'	10/23/2023	6	0.318	0.535	8.19	0.114
NATIVE-BG02@3'	10/23/2023	3	0.116	0.481	7.22	<0.100
NATIVE-BG02@6'	10/23/2023	6	0.129	0.55	7.18	<0.101
NATIVE-BG03@5'	12/28/2023	5	0.800	0.559	8.04	0.183
NATIVE-BG03@10'	12/28/2023	10	0.875	0.175	8.07	<0.101
NATIVE-BG04@5'	12/28/2023	5	0.318	0.726	6.90	<0.101
NATIVE-BG04@10'	12/28/2023	10	1.52	0.649	6.29	<0.101
NATIVE-BG05@5'	12/28/2023	5	0.0987	0.631	7.28	<0.101
NATIVE-BG05@10'	12/28/2023	10	0.158	0.640	8.03	<0.102
NATIVE-BG06@13'	2/2/2024	13	1.59	0.321	4.28	<0.0998
NATIVE-BG07@13'	2/2/2024	13	0.661	0.637	7.66	<0.100
NATIVE-BG08@13'	2/2/2024	13	0.0613	0.721	7.15	<0.100
NATIVE-BG09@13'	2/2/2024	13	0.0588	0.310	7.14	<0.100
NATIVE-BG10@13'	2/2/2024	13	0.271	1.04	8.21	<0.100
NATIVE-BG11@15'	7/18/2024	15	0.223	0.901	8.28	<0.101
NATIVE-BG11@18'	7/18/2024	18	0.0939	1.95	7.89	<0.0994
NATIVE-BG12@15'	7/18/2024	15	0.105	0.73	8.62	<0.0994
NATIVE-BG12@18'	7/18/2024	18	0.0536	0.554	7.76	<0.100
NATIVE-BG13@15'	7/18/2024	15	0.0494	0.424	7.51	<0.101
NATIVE-BG13@18'	7/18/2024	18	0.0828	0.901	7.43	<0.101

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

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

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

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

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.05	47.6	<0.0875	<0.296	<8.75	<8.75	<8.75	0.0927	<0.0875	<87.5
Site-Specific Background Limits (3-6')			2.01	61.4	0.156	NA	NA	8.06	5.08	0.140	NA	30.7
Site-Specific Background Limits (5-10')			2.01	61.4	0.156	0.248	NA	8.06	5.18	0.140	NA	30.7
Site-Specific Background Limits (13')			2.28	28.3	NA	NA	NA	4.07	2.33	NA	NA	12.9
Site-Specific Background Limits (15-18')			1.06	37.6	NA	NA	NA	6.31	9.99	0.373	NA	NA
ABOVEGROUND STORAGE TANK SAMPLES												
AST01@0.5'	10/23/2023	0.5	1.75*	36.0	<0.0846	<0.254	<8.46	<8.46	<8.46	<0.0846	<0.0846	<84.6
AST02@0.5'	10/23/2023	0.5	1.77*	45.0	0.103	<0.347	<9.09	<9.09	<9.09	<0.0909	<0.0909	<90.9
PRODUCED WATER VESSEL SAMPLES												
PWV-B01@5'	10/23/2023	5	1.86*	57.6	0.143	<0.303	<9.06	12.8	<9.06	0.163	<0.0906	<90.6
PWV-W01@2.5'	10/23/2023	2.5	1.67*	62.7	0.153	<0.284	<9.45	10.4	<9.45	0.113	<0.0945	<94.5
SEPARATOR SAMPLES												
SEP01-INLET@4'	10/23/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP01-OUTLET@4'	10/23/2023	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TANK BATTERY SAMPLES												
B01@4'	12/6/2023	4	1.62	53.6	0.181	NA	NA	9.83	NA	0.774	NA	NA
B02@5'	12/6/2023	5	1.69	58.3	0.107	NA	NA	6.71	NA	0.516	NA	NA
B03@6'	12/6/2023	6	1.72	46.3	0.201	NA	NA	9.79	NA	0.727	NA	NA
N01@2'	12/6/2023	2	1.37	46.7	0.151	NA	NA	8.83	NA	0.638	NA	NA
E01@2'	12/6/2023	2	2.10	71.7	0.383	NA	NA	14.9	NA	0.753	NA	NA
E02@3'	12/6/2023	3	1.12	48.4	0.0857	NA	NA	7.1	NA	0.505	NA	NA
W01@3'	12/6/2023	3	1.30	43.1	0.126	NA	NA	5.97	NA	0.521	NA	NA
W02@2'	12/6/2023	2	2.02	71.2	0.395	NA	NA	14.4	NA	0.766	NA	NA
S01@3'	12/6/2023	3	1.22	54.5	0.107	NA	NA	8.11	NA	0.561	NA	NA
S02@3'	12/6/2023	3	1.92	64.9	0.346	NA	NA	13.7	NA	0.818	NA	NA
E03@3'	12/28/2023	3	1.55	54.8	<0.0930	NA	NA	6.48	NA	NA	NA	NA
TB01-B01@20'	6/5/2024	20	2.28	38.2	<0.0862	NA	13.5	6.54	3.84	0.422	<0.0862	<31.9
TB01-B02@20'	6/5/2024	20	1.19	29.4	<0.0980	NA	<9.80	4.16	4.29	<0.255	<0.0980	<36.3
TB01-E01@18'	6/5/2024	18	1.02*	31.0	<0.0897	NA	<8.97	4.58	6.16	<0.233	<0.0897	<33.2
TB01-E01@8'	6/5/2024	8	NA	NA	NA	NA	<9.55	NA	NA	NA	NA	NA
TB01-E02@18'	6/5/2024	18	0.851*	32.2	0.114	NA	<8.74	4.11	5.97	0.591	<0.0874	<32.3
TB01-E02@8'	6/5/2024	8	1.50*	52.8	<0.0875	NA	<8.75	6.21	5.49	<0.228	<0.0875	<32.4
TB01-N01@18'	6/5/2024	18	1.06*	31.4	<0.0864	NA	<8.64	4.48	6.37	<0.225	<0.0864	<32.0
TB01-N01@8'	6/5/2024	8	1.41*	49.7	<0.0905	NA	<9.05	4.64	3.30	<0.235	<0.0905	<33.5
TB01-S01@18'	6/5/2024	18	0.829*	19.5	<0.0905	NA	<9.05	3.13	3.86	0.297*	<0.0905	<33.5
TB01-S01@8'	6/5/2024	8	NA	NA	NA	NA	<9.76	NA	NA	NA	NA	NA
TB01-W01@18'	6/5/2024	18	0.851*	29.1	<0.0925	NA	<9.25	4.32	5.67	<0.240	<0.0925	<34.2
TB01-W01@8'	6/5/2024	8	NA	NA	NA	NA	12.8	NA	NA	NA	NA	NA
TB01-W02@18'	6/5/2024	18	NA	NA	NA	NA	<8.85	NA	NA	NA	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.05	47.6	<0.0875	<0.296	<8.75	<8.75	<8.75	0.0927	<0.0875	<87.5
Site-Specific Background Limits (3-6')			2.01	61.4	0.156	NA	NA	8.06	5.08	0.140	NA	30.7
Site-Specific Background Limits (5-10')			2.01	61.4	0.156	0.248	NA	8.06	5.18	0.140	NA	30.7
Site-Specific Background Limits (13')			2.28	28.3	NA	NA	NA	4.07	2.33	NA	NA	12.9
Site-Specific Background Limits (15-18')			1.06	37.6	NA	NA	NA	6.31	9.99	0.373	NA	NA
TB01-W02@8'	6/5/2024	8	NA	NA	NA	NA	<8.45	NA	NA	NA	NA	NA
TB01-B03@19'	6/26/2024	19	0.672*	35.1	<0.0907	NA	<9.07	3.63	5.12	<0.236	NA	NA
TB01-B04@19'	6/26/2024	19	0.797*	28.0	<0.0971	NA	<9.71	3.36	6.70	0.394	NA	NA
TB01-B05@19'	6/26/2024	19	5.48	57.4	<0.0949	NA	11.7	6.38	5.55	6.67	NA	NA
TB01-B06@19'	6/26/2024	19	0.738*	23.9	<0.0834	NA	<8.34	2.07	3.55	0.328*	NA	NA
TB01-B07@19'	6/26/2024	19	2.18	30.0	<0.0862	NA	<8.62	5.28	4.38	0.871	NA	NA
TB01-S01@8'	6/26/2024	8	1.29*	48.3	<0.0959	NA	<9.59	5.52	5.28	<0.249	NA	NA
TB01-S02@8'	6/26/2024	8	1.08*	22.3	<0.0906	NA	<9.06	3.30	4.57	0.293	NA	NA
TB01-S03@8'	6/26/2024	8	2.87	58.8	0.156	NA	12.8	9.16	7.36	<0.221	NA	NA
TB01-S04@8'	6/26/2024	8	0.964*	19.8	<0.0869	NA	<8.69	3.16	2.77	<0.226	NA	NA
TB01-E03@18'	6/28/2024	18	0.777*	30.6	<0.0895	NA	<8.95	4.71	6.61	<0.233	NA	NA
TB01-E03@8'	6/28/2024	8	0.752	24.7	<0.0849	NA	<8.49	3.47	1.76	<0.221	NA	NA
TB01-E04@18'	6/28/2024	18	0.273*	11.3	<0.0938	NA	<9.38	1.64	1.60	<0.244	NA	NA
TB01-E04@8'	6/28/2024	8	0.595*	17.1	<0.0918	NA	<9.18	3.08	1.42	<0.239	NA	NA
TB01-E05@18'	6/28/2024	18	0.495*	20.8	<0.0899	NA	<8.99	2.73	3.82	<0.234	NA	NA
TB01-E05@8'	6/28/2024	8	1.66*	51.8	<0.0974	NA	<9.74	5.93	3.11	<0.253	NA	NA
TB01-N02@18'	6/28/2024	18	0.474*	21.6	<0.0924	NA	<9.24	3.38	4.35	<0.240	NA	NA
TB01-N02@8'	6/28/2024	8	0.351*	12.1	<0.0902	NA	<9.02	1.72	1.16	<0.235	NA	NA
TB01-N03@18'	6/28/2024	18	0.590*	21.6	<0.0935	NA	<9.35	3.43	6.80	0.295*	NA	NA
TB01-N03@8'	6/28/2024	8	0.713*	11.1	<0.0869	NA	<8.69	2.62	1.70	<0.226	NA	NA
TB01-S05@18'	6/28/2024	18	0.732*	27.1	<0.0935	NA	<9.35	3.28	5.03	<0.243	NA	NA
TB01-S05@8'	6/28/2024	8	0.669*	19.3	<0.0959	NA	<9.59	3.42	3.33	<0.249	NA	NA
TB01-B08@20'	7/2/2024	20	0.635*	31.2	<0.0924	NA	<9.24	3.81	6.69	<0.240	NA	NA
TB01-B09@20'	7/2/2024	20	0.834*	41.9	<0.0868	NA	8.95	4.49	7.26	<0.226	NA	NA
TB01-E06@18'	7/2/2024	18	0.605*	34.1	<0.0843	NA	<8.43	4.56	5.78	<0.219	NA	NA
TB01-E06@8'	7/2/2024	8	0.495*	17.2	<0.0938	NA	<9.38	3.55	2.69	<0.244	NA	NA
TB01-E07@18'	7/2/2024	18	0.611*	30.2	<0.0834	NA	<8.34	4.14	5.12	<0.217	NA	NA
TB01-E07@8'	7/2/2024	8	0.475*	16.3	<0.0861	NA	<8.61	3.03	1.82	<0.224	NA	NA
TB01-N04@18'	7/2/2024	18	0.818*	31.2	<0.0929	NA	<9.29	4.50	5.78	<0.241	NA	NA
TB01-N04@8'	7/2/2024	8	0.719*	18.5	<0.0843	NA	<8.43	3.40	1.12	<0.219	NA	NA
TB01-N05@18'	7/2/2024	18	0.621*	32.5	<0.0970	NA	<9.70	3.72	5.04	<0.252	NA	NA
TB01-N05@8'	7/2/2024	8	0.511*	17.8	<0.0979	NA	<9.79	3.04	<0.979	<0.255	NA	NA
TB01-S01@18'	7/2/2024	18	0.641*	16.6	<0.0914	NA	<9.14	2.62	3.59	0.432	NA	NA
TB01-S02@18'	7/2/2024	18	0.850*	31.0	<0.0900	NA	<9.00	4.46	6.72	0.534	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.05	47.6	<0.0875	<0.296	<8.75	<8.75	<8.75	0.0927	<0.0875	<87.5
Site-Specific Background Limits (3-6')			2.01	61.4	0.156	NA	NA	8.06	5.08	0.140	NA	30.7
Site-Specific Background Limits (5-10')			2.01	61.4	0.156	0.248	NA	8.06	5.18	0.140	NA	30.7
Site-Specific Background Limits (13')			2.28	28.3	NA	NA	NA	4.07	2.33	NA	NA	12.9
Site-Specific Background Limits (15-18')			1.06	37.6	NA	NA	NA	6.31	9.99	0.373	NA	NA
TB01-S03@18'	7/2/2024	18	0.944*	24.6	<0.0897	NA	<8.97	3.09	6.94	<0.233	NA	NA
TB01-B10@20'	7/17/2024	20	1.29	39.8	<0.0997	NA	<9.97	3.74	4.45	0.519	NA	NA
TB01-B11@20'	7/17/2024	20	0.775*	20.7	<0.0869	NA	<8.69	2.48	3.71	0.361*	NA	NA
TB01-S06@18'	7/17/2024	18	0.903*	13.0	<0.0978	NA	<9.78	3.01	1.88	<0.254	NA	NA
TB01-S06@8'	7/17/2024	8	1.99*	67.8	<0.0871	NA	<8.71	8.35	10.3	<0.227	NA	NA
TB01-S07@18'	7/17/2024	18	1.16*	26.7	<0.0956	NA	<9.56	4.36	6.39	0.857	NA	NA
TB01-S07@8'	7/17/2024	8	1.34*	32.3	<0.0853	NA	<8.53	4.99	5.24	<0.222	NA	NA
TB01-W03@18'	7/17/2024	18	1.49	29.0	<0.0927	NA	<9.27	4.05	6.32	<0.241	NA	NA
TB01-W03@8'	7/17/2024	8	1.21*	32.2	<0.0917	NA	<9.17	4.11	4.29	<0.238	NA	NA
TB01-W04@18'	7/17/2024	18	4.44	21.0	<0.0910	NA	<9.10	13.5	4.41	<0.236	NA	NA
TB01-W04@8'	7/17/2024	8	1.90*	45.8	<0.0902	NA	<9.02	7.23	5.33	<0.234	NA	NA
TB01-B13@20'	7/18/2024	20	2.91	52.0	<0.0937	NA	<9.37	4.63	6.75	0.820	NA	NA
TB01-E08@18'	7/18/2024	18	0.792*	34.1	<0.0917	NA	<9.17	4.82	8.79	<0.238	NA	NA
TB01-E08@8'	7/18/2024	8	1.20*	20.8	<0.0969	NA	<9.69	3.88	2.52	<0.252	NA	NA
TB01-E09@18'	7/18/2024	18	0.779*	22.1	<0.0894	NA	<8.94	3.52	4.55	0.398	NA	NA
TB01-E09@8'	7/18/2024	8	0.319*	<9.12	<0.0912	NA	<9.12	1.65	<0.912	<0.237	NA	NA
TB01-S08@18'	7/18/2024	18	0.567*	26.8	<0.0854	NA	<8.54	3.71	6.97	1.72	NA	NA
TB01-S08@8'	7/18/2024	8	4.73	277	0.245	NA	11.7	10.6	12.7	0.321	NA	NA
TB01-B14@20'	7/25/2024	20	0.518*	35.5	<0.0926	NA	<9.26	4.33	6.11	<0.241	NA	NA
TB01-B15@20'	7/25/2024	20	1.18	33.4	<0.0987	NA	<9.87	3.63	6.32	<0.257	NA	NA
TB01-W05@18'	7/25/2024	18	1.06*	25.7	<0.0935	NA	<9.35	4.16	5.94	<0.243	NA	NA
TB01-W05@8'	7/25/2024	8	1.62*	34.8	<0.0900	NA	<9.00	4.56	3.73	<0.234	NA	NA
TB01-W06@18'	7/25/2024	18	1.17*	15.9	<0.0980	NA	<9.80	2.93	3.40	<0.255	NA	NA
TB01-W06@8'	7/25/2024	8	2.29	46.3	<0.0995	NA	<9.95	6.76	5.00	<0.259	NA	NA
TB01-W07@18'	7/25/2024	18	1.62*	36.4	<0.0974	NA	<9.74	4.59	7.76	<0.253	NA	NA
TB01-W07@8'	7/25/2024	8	1.28*	27.4	<0.0956	NA	<9.56	3.50	2.24	<0.248	NA	NA
TB01-B16@20'	7/31/2024	20	<0.271	21.9	<0.0933	NA	NA	2.51	4.49	<0.243	NA	NA
TB01-W08@18'	7/31/2024	18	0.472*	26.2	<0.0959	NA	NA	3.45	5.26	<0.249	NA	NA
TB01-W08@8'	7/31/2024	8	0.725*	16.4	<0.0892	NA	NA	2.98	2.34	<0.232	NA	NA
TB01-W09@18'	7/31/2024	18	0.401*	26.3	<0.0935	NA	NA	3.27	5.17	<0.243	NA	NA
TB01-W09@8'	7/31/2024	8	0.939*	25.3	<0.0840	NA	NA	3.65	3.54	<0.218	NA	NA
TB01-W10@18'	7/31/2024	18	0.327*	11.1	<0.0906	NA	NA	2.26	2.41	<0.236	NA	NA
TB01-W10@8'	7/31/2024	8	1.06*	81.1	<0.0905	NA	NA	10.4	11.3	<0.235	NA	NA
TB01-E10@18'	8/1/2024	18	0.369*	20.0	<0.0879	NA	NA	2.62	4.22	<0.228	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.05	47.6	<0.0875	<0.296	<8.75	<8.75	<8.75	0.0927	<0.0875	<87.5
Site-Specific Background Limits (3-6')			2.01	61.4	0.156	NA	NA	8.06	5.08	0.140	NA	30.7
Site-Specific Background Limits (5-10')			2.01	61.4	0.156	0.248	NA	8.06	5.18	0.140	NA	30.7
Site-Specific Background Limits (13')			2.28	28.3	NA	NA	NA	4.07	2.33	NA	NA	12.9
Site-Specific Background Limits (15-18')			1.06	37.6	NA	NA	NA	6.31	9.99	0.373	NA	NA
TB01-E10@8'	8/1/2024	8	<0.283	<9.76	<0.0976	NA	NA	1.08	<0.976	<0.254	NA	NA
TB01-E11@18'	8/1/2024	18	0.371*	26.4	<0.0886	NA	NA	3.27	4.90	<0.230	NA	NA
TB01-E11@8'	8/1/2024	8	0.373*	15.0	<0.0879	NA	NA	2.73	1.28	<0.229	NA	NA
TB01-E12@18'	8/1/2024	18	0.593*	34.9	<0.0854	NA	NA	3.91	5.71	<0.222	NA	NA
TB01-E12@8'	8/1/2024	8	1.68*	14.5	<0.0969	NA	NA	1.70	1.12	<0.252	NA	NA
TB01-N06@18'	8/1/2024	18	0.465*	25.1	<0.0979	NA	NA	4.09	4.59	<0.255	NA	NA
TB01-N06@8'	8/1/2024	8	0.422*	15.9	<0.0959	NA	NA	2.42	1.34	<0.249	NA	NA
TB01-N07@18'	8/1/2024	18	0.529*	22.6	<0.0870	NA	NA	3.62	5.24	<0.226	NA	NA
TB01-N07@8'	8/1/2024	8	0.784*	28.4	<0.0868	NA	NA	3.88	3.62	<0.226	NA	NA
TB01-N08@18'	8/1/2024	18	0.486*	23.1	<0.0859	NA	NA	3.76	5.56	<0.223	NA	NA
TB01-N08@8'	8/1/2024	8	1.07*	23.1	<0.0924	NA	NA	3.83	3.89	<0.240	NA	NA
TB01-N09@18'	8/1/2024	18	0.564*	26.1	<0.0944	NA	NA	4.05	5.64	<0.246	NA	NA
TB01-N09@8'	8/1/2024	8	1.69	57.2	<0.0838	NA	NA	5.85	6.21	<0.218	NA	NA
POTHOLE SAMPLES												
FL01@4'	10/23/2023	4	1.96*	59.5	0.120	<0.357	<8.93	10.3	<8.93	<0.0893	<0.0893	<89.3
FL01-B01@6.5'	12/6/2023	6.5	0.893*	65.6	0.0653	NA	NA	7.61	NA	0.555	NA	NA
FL01-S01@3.5'	12/6/2023	3.5	1.31*	54.6	0.134	NA	NA	8.05	NA	0.456	NA	NA
FL01-E01@3.5'	12/6/2023	3.5	0.732*	40.6	0.0566	NA	NA	3.36	NA	0.394	NA	NA
FL01-N01@3.5'	12/6/2023	3.5	0.893*	42.8	0.0996	NA	NA	6.1	NA	0.354	NA	NA
FL01-W01@3.5'	12/6/2023	3.5	0.909*	42.7	0.0608	NA	NA	4.38	NA	0.46	NA	NA
FL01-B01@10'	12/28/2023	10	5.21	137	0.174	NA	NA	9.61	11.3	NA	NA	41.3
FL01-N01@9'	12/28/2023	9	4.96	172	0.237	NA	NA	29.3	13.2	NA	NA	58.6
FL01-E01@9'	12/28/2023	9	5.68	172	0.184	NA	NA	10.8	13.1	NA	NA	47.4
FL01-S01@9'	12/28/2023	9	1.73*	65.9	<0.0986	<0.5	<9.86	7.47	6.56	<0.986	<0.986	31.3
FL01-W01@9'	12/28/2023	9	1.16*	33.3	<0.0898	NA	NA	6.24	3.34	NA	NA	17.8
FL01-B01@13'	2/2/2024	13	1.27*	18.4	<0.0890	NA	NA	3.85	2.21	NA	NA	13.8
FL01-S02@3.5'	2/2/2024	3.5	3.28	57.0	0.0949	NA	NA	6.47	5.94	NA	NA	31.0
FL01-S02@9'	2/2/2024	9	3.04	71.2	<0.0874	NA	NA	7.76	6.67	NA	NA	32.7
FL01-E02@3.5'	2/2/2024	3.5	2.00*	66.3	0.0951	NA	NA	3.92	4.02	NA	NA	17.8
FL01-E02@9'	2/2/2024	9	2.34	44.5	<0.0940	NA	NA	5.12	4.13	NA	NA	20.7
FL02-A(FSV4,33-10,UNK)@4'	6/6/2024	4	3.01	98.9	0.171	NA	NA	9.80	NA	<0.243	NA	NA
FL02-B(FSV4,33-10,UNK)@4'	6/6/2024	4	3.33	119	0.162	NA	NA	9.67	NA	<0.220	NA	NA
FL02-C(FSV4,33-10,UNK)@4'	6/6/2024	4	3.12	113	0.180	NA	NA	12.2	NA	<0.233	NA	NA
FL02-D(FSV4,33-10,UNK)@4'	6/6/2024	4	10.5	188	0.320	NA	NA	12.2	NA	0.391	NA	NA

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
PSC 15-10FSV, 24A&4 O SA FACILITY
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Soil Sample ID	Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits (TB)			2.05	47.6	<0.0875	<0.296	<8.75	<8.75	<8.75	0.0927	<0.0875	<87.5
Site-Specific Background Limits (3-6')			2.01	61.4	0.156	NA	NA	8.06	5.08	0.140	NA	30.7
Site-Specific Background Limits (5-10')			2.01	61.4	0.156	0.248	NA	8.06	5.18	0.140	NA	30.7
Site-Specific Background Limits (13')			2.28	28.3	NA	NA	NA	4.07	2.33	NA	NA	12.9
Site-Specific Background Limits (15-18')			1.06	37.6	NA	NA	NA	6.31	9.99	0.373	NA	NA
FL03-A(FSV4)@5'	6/6/2024	5	2.28*	70.6	0.129	NA	NA	9.95	NA	<0.251	NA	NA
BACKGROUND SAMPLES												
TB-BG01@0.5'	10/23/2023	0.5	2.05	47.6	<0.0875	<0.296	<8.75	<8.75	<8.75	0.0927	<0.0875	<87.5
NATIVE-BG01@3'	10/23/2023	3	1.60	49.1	<0.0914	<0.268	<9.14	<9.14	<9.14	<0.0914	<0.0914	<91.4
NATIVE-BG01@6'	10/23/2023	6	1.46	22.0	<0.0914	<0.281	<9.14	<9.14	<9.14	<0.0914	<0.0914	<91.4
NATIVE-BG02@3'	10/23/2023	3	0.661	10.1	<0.0925	<0.335	<9.25	<9.25	<9.25	<0.0925	<0.0925	<92.5
NATIVE-BG02@6'	10/23/2023	6	1.83	26.1	<0.0835	<0.233	<8.35	<8.35	<8.35	<0.0835	<0.0835	<83.5
NATIVE-BG03@5'	12/28/2023	5	2.01	61.4	0.156	<0.5	<8.81	8.06	5.08	0.140	<0.0881	30.7
NATIVE-BG03@10'	12/28/2023	10	1.03	28.1	<0.0926	<0.5	<9.26	3.49	2.13	<0.0926	<0.0926	12.1
NATIVE-BG04@5'	12/28/2023	5	1.10	12.0	<0.0857	<0.5	<8.57	1.92	1.14	<0.0897	<0.0897	<8.97
NATIVE-BG04@10'	12/28/2023	10	1.58	41.9	0.0981	0.248	<9.17	6.51	5.18	<0.0917	<0.0917	19.9
NATIVE-BG05@5'	12/28/2023	5	0.764	21.0	<0.0871	<0.5	<8.71	1.60	1.21	<0.0871	<0.0871	9.83
NATIVE-BG05@10'	12/28/2023	10	0.994	27.8	<0.0877	<0.5	<8.77	4.16	2.54	<0.0877	<0.0877	15.7
NATIVE-BG06@13'	2/2/2024	13	1.78	14.0	<0.0948	<0.5	<9.48	4.05	1.88	<0.0948	<0.0948	10.2
NATIVE-BG07@13'	2/2/2024	13	1.30	18.9	<0.0995	<0.5	<9.95	3.06	1.33	<0.0995	<0.0995	10.1
NATIVE-BG08@13'	2/2/2024	13	1.78	16.2	<0.0877	<0.5	<8.77	3.11	1.13	<0.0877	<0.0877	11.3
NATIVE-BG09@13'	2/2/2024	13	1.24	17.2	<0.0888	<0.5	<8.88	3.12	1.86	<0.0888	<0.0888	12.9
NATIVE-BG10@13'	2/2/2024	13	2.28	28.3	<0.0975	<0.5	<9.75	4.07	2.33	<0.0975	<0.0975	10.4
NATIVE-BG11@15'	7/18/2024	15	1.06	26.5	<0.0881	NA	<8.81	4.25	3.84	<0.229	<0.0881	<32.6
NATIVE-BG11@18'	7/18/2024	18	0.813	36.5	<0.0934	NA	<9.34	6.31	9.99	0.373	<0.0934	<34.6
NATIVE-BG12@15'	7/18/2024	15	0.619	19.5	<0.0880	NA	<8.80	3.33	1.34	<0.229	<0.0880	<32.5
NATIVE-BG12@18'	7/18/2024	18	0.507	11.9	<0.0885	NA	<8.85	2.2	1.17	<0.230	<0.0885	<32.8
NATIVE-BG13@15'	7/18/2024	15	0.963	22.7	<0.0965	NA	<9.65	3.06	2.38	<0.251	<0.0965	<35.7
NATIVE-BG13@18'	7/18/2024	18	1.06	37.6	<0.0841	NA	<8.41	4.71	5.82	<0.219	<0.0841	<31.1

Notes:

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

*Exceeds Table 915-1 allowable level but within background

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

June 25, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility**

Project Number - 09A1417392

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. June 06, 2024. This project is associated with Origins project number Y406178-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL02-A(FSV4,33-10,UNK)@4'	Y406178-01	Soil	June 6, 2024 8:30	06/06/2024 16:05
FL02-B(FSV4,33-10,UNK)@4'	Y406178-02	Soil	June 6, 2024 8:40	06/06/2024 16:05
FL02-C(FSV4,33-10,UNK)@4'	Y406178-03	Soil	June 6, 2024 8:50	06/06/2024 16:05
FL02-D(FSV4,33-10,UNK)@4'	Y406178-04	Soil	June 6, 2024 9:00	06/06/2024 16:05
FL03-A(FSV4)@5'	Y406178-05	Soil	June 6, 2024 10:00	06/06/2024 16:05

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS

LABORATORY LLC

Client: Ensolum

Address:

Project Manager:

Jeremy Espinoza

Key:

Project Name: PSC 15-10 FSV 24A & 4 O SA Facility

Project Number:

09A1417392

M=Water

GW=Groundwater

Collected By:

JH

SW=Surface Water

WW=Waste Water

Telephone Number:

KMG Team

Invoice/Billing Info:

OK/Impacted

L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis												Comments
							BTEX	IMB	TPH	PAHs	PH	SAR	Boron	As	Be	Ca	Pb	Se	
1	FL02-A(FSV)33-10-UNP	6-6-24	830	3	S	UNP	X	X	X	X	X	X	X	X	X	X	Full 915 added to all samples		
2	FL02-B(FSV)33-10-UNP		840				X	X	X	X	X	X	X	X	X	X	per the email from Jeremy on 6/11/24		
3	FL02-C(FSV)33-10-UNP		850				X	X	X	X	X	X	X	X	X	X			
4	FL02-D(FSV)33-10-UNP		900				X	X	X	X	X	X	X	X	X	X			
5	FL03-A(FSV)05		1000				X	X	X	X	X	X	X	X	X	X			
6																			
7																			
8																			
9																			
10																			

Relinquished By: Jeremy HKS

Date: 6-6-2024

Time: 1005

Received By: JH

Date: 6/11/24

Time: 1005

Temp Received - 9.4

Received On Ice?

Yes

No

For Lab Sample Receiving Only:

Standard

Turnaround Time

48 Hr

72 Hr

SAME DAY

24 Hr

Origins Laboratory, Inc.

Byron

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406178

Client: Ensolum

Client Project ID: PSC 15-10 FSV, 24A&4

Checklist Completed by: EM

Date/time completed: 6/18/12

Shipped Via: 40
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1 19.6 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1005

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

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

Reviewed by (Project Manager): EM

Date/Time Reviewed: 6/18/12

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-A(FSV4.33-10.UNK)@4'

6/6/2024 8:30:00AM

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

Origins Laboratory, Inc. Y406178-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.398	0.0983	mg/L	1	B4F0705	06/07/2024	06/10/2024
-------	-------	--------	------	---	---------	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0657	06/06/2024	06/07/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.4 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0658	06/06/2024	06/06/2024	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	94.7 %	70-130	"	"	"
----------------------------------	--------	--------	---	---	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-A(FSV4.33-10.UNK)@4'

6/6/2024 8:30:00AM

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

Origins Laboratory, Inc. Y406178-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.8 %	70-130				B4F06 58	06/06/2024	06/06/2024	
Surrogate: 4-Bromofluorobenzene	132 %	70-130				"	"	"	S-GC

Metals by Saturated Paste by EPA 6010

Calcium	2.57	0.499	meq/L	10	[CALC]	06/07/2024	06/11/2024	
Magnesium	1.37	0.823	"	"	"	"	"	
Sodium	1.04	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-A(FSV4.33-10.UNK)@4'

6/6/2024 8:30:00AM

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

Origins Laboratory, Inc. Y406178-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	112 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B4F0717	06/07/2024	06/12/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.741	0.0100	SAR	1	B4F0711	06/07/2024	06/11/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.827	0.00500	mmhos/cm	1	B4F1319	06/13/2024	06/14/2024
---------------------------	-------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-A(FSV4.33-10.UNK)@4'

6/6/2024 8:30:00AM

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

Origins Laboratory, Inc.
Y406178-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.01	0.271	mg/kg	10	B4F0659	06/06/2024	06/07/2024
Barium	98.9	9.35	"	"	"	"	"
Cadmium	0.171	0.0935	"	"	"	"	"
Lead	9.80	0.935	"	"	"	"	"
Selenium	ND	0.243	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.404	mg/kg dry	1	2631118	06/24/2024	06/25/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-B(FSV4.33-10.UNK)@4'

6/6/2024 8:40:00AM

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

Origins Laboratory, Inc. Y406178-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.442	0.100	mg/L	1	B4F0705	06/07/2024	06/10/2024
-------	-------	-------	------	---	---------	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0657	06/06/2024	06/07/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.3 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0658	06/06/2024	06/06/2024	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	91.7 %	70-130	"	"	"
----------------------------------	--------	--------	---	---	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-B(FSV4.33-10.UNK)@4'

6/6/2024 8:40:00AM

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

Origins Laboratory, Inc. Y406178-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %	70-130	B4F0658	06/06/2024	06/06/2024
Surrogate: 4-Bromofluorobenzene	115 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.52	0.499	meq/L	10	[CALC]	06/07/2024	06/11/2024
Magnesium	0.978	0.823	"	"	"	"	"
Sodium	1.37	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4F0656	06/06/2024	06/09/2024	
2-Methylnaphthalene	0.006	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-B(FSV4.33-10.UNK)@4'

6/6/2024 8:40:00AM

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

Origins Laboratory, Inc. Y406178-02 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	0.002	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	113 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	92.6 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.46	pH Units	1	B4F0717	06/07/2024	06/12/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	1.22	0.0100	SAR	1	B4F0711	06/07/2024	06/11/2024
-----	------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.697	0.00500	mmhos/cm	1	B4F1319	06/13/2024	06/14/2024
---------------------------	-------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-B(FSV4.33-10.UNK)@4'

6/6/2024 8:40:00AM

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

Origins Laboratory, Inc.
Y406178-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.33	0.245	mg/kg	10	B4F0659	06/06/2024	06/07/2024
Barium	119	8.45	"	"	"	"	"
Cadmium	0.162	0.0845	"	"	"	"	"
Lead	9.67	0.845	"	"	"	"	"
Selenium	ND	0.220	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.124	0.310	mg/kg dry	1	2631118	06/24/2024	06/25/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-C(FSV4.33-10.UNK)@4'

6/6/2024 8:50:00AM

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

Origins Laboratory, Inc. Y406178-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.290	0.0992	mg/L	1	B4F0705	06/07/2024	06/10/2024
-------	-------	--------	------	---	---------	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0657	06/06/2024	06/07/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.9 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0658	06/06/2024	06/06/2024	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	"	"	"
----------------------------------	--------	--------	---	---	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-C(FSV4.33-10.UNK)@4'

6/6/2024 8:50:00AM

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

Origins Laboratory, Inc. Y406178-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	111 %	70-130				B4F0658	06/06/2024	06/06/2024	
Surrogate: 4-Bromofluorobenzene	113 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	06/07/2024	06/11/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-C(FSV4.33-10.UNK)@4'

6/6/2024 8:50:00AM

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

Origins Laboratory, Inc. Y406178-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.54	pH Units	1	B4F0717	06/07/2024	06/12/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.121	0.0100	SAR	1	B4F0711	06/07/2024	06/11/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.416	0.00500	mmhos/cm	1	B4F1319	06/13/2024	06/14/2024
---------------------------	-------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-C(FSV4.33-10.UNK)@4'

6/6/2024 8:50:00AM

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

Origins Laboratory, Inc.
Y406178-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.12	0.260	mg/kg	10	B4F0659	06/06/2024	06/07/2024
Barium	113	8.96	"	"	"	"	"
Cadmium	0.180	0.0896	"	"	"	"	"
Lead	12.2	0.896	"	"	"	"	"
Selenium	ND	0.233	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.162	0.404	mg/kg dry	1	2631118	06/24/2024	06/25/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-D(FSV4.33-10.UNK)@4'

6/6/2024 9:00:00AM

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

Origins Laboratory, Inc. Y406178-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.924	0.0997	mg/L	1	B4F0706	06/07/2024	06/10/2024
-------	-------	--------	------	---	---------	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0657	06/06/2024	06/07/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.7 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0658	06/06/2024	06/06/2024	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	93.8 %	70-130	"	"	"
----------------------------------	--------	--------	---	---	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-D(FSV4.33-10.UNK)@4'

6/6/2024 9:00:00AM

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

Origins Laboratory, Inc. Y406178-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B4F06 58	06/06/2024	06/06/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.67	0.499	meq/L	10	[CALC]	06/07/2024	06/11/2024
Magnesium	1.11	0.823	"	"	"	"	"
Sodium	0.805	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-D(FSV4.33-10.UNK)@4'

6/6/2024 9:00:00AM

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

Origins Laboratory, Inc. Y406178-04 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F0656	06/06/2024	06/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.62	pH Units	1	B4F0717	06/07/2024	06/12/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.683	0.0100	SAR	1	B4F0711	06/07/2024	06/11/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.553	0.00500	mmhos/cm	1	B4F1319	06/13/2024	06/14/2024
---------------------------	-------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL02-D(FSV4.33-10.UNK)@4'

6/6/2024 9:00:00AM

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

Origins Laboratory, Inc.
Y406178-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	10.5	0.283	mg/kg	10	B4F0659	06/06/2024	06/07/2024
Barium	188	9.76	"	"	"	"	"
Cadmium	0.320	0.0976	"	"	"	"	"
Lead	12.2	0.976	"	"	"	"	"
Selenium	0.391	0.254	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.404	mg/kg dry	1	2631118	06/24/2024	06/25/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL03-A(FSV4)@5'
6/6/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y406178-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.376	0.0997	mg/L	1	B4F0706	06/07/2024	06/10/2024
-------	-------	--------	------	---	---------	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	105	25.0	mg/kg	1	B4F0657	06/06/2024	06/07/2024
Residual Range Organics (C28-C40)	222	100	"	"	"	"	"

Surrogate: o-Terphenyl	92.3 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0658	06/06/2024	06/06/2024	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	0.405	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.4 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL03-A(FSV4)@5'
6/6/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y406178-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	113 %	70-130	B4F06 58	06/06/2024	06/06/2024
---------------------------------	-------	--------	-------------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	9.40	0.499	meq/L	10	[CALC]	06/07/2024	06/11/2024
Magnesium	5.84	0.823	"	"	"	"	"
Sodium	1.26	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.006	0.002	mg/kg	1	B4F0656	06/06/2024	06/09/2024
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"
Acenaphthene	0.951	0.020	"	"	"	"	"
Anthracene	0.079	0.020	"	"	"	"	"
Benzo (a) anthracene	0.028	0.005	"	"	"	"	"
Benzo (a) pyrene	ND	0.020	"	"	"	"	" Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	" Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	" Ua
Chrysene	0.066	0.020	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	" Ua
Fluoranthene	0.112	0.020	"	"	"	"	"
Fluorene	0.385	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	" 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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL03-A(FSV4)@5'
6/6/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y406178-05 (Soil)

PAH by EPA 8270E

Naphthalene	0.003	0.002	mg/kg	1	B4F0656	06/06/2024	06/09/2024
Pyrene	0.121	0.020	"	"	"	"	"

Surrogate: Fluorene-d10	115 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B4F0717	06/07/2024	06/12/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.456	0.0100	SAR	1	B4F0711	06/07/2024	06/11/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.43	0.00500	mmhos/cm	1	B4F1319	06/13/2024	06/14/2024
---------------------------	------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	2.28	0.280	mg/kg	10	B4F0659	06/06/2024	06/07/2024
Barium	70.6	9.66	"	"	"	"	"
Cadmium	0.129	0.0966	"	"	"	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

FL03-A(FSV4)@5'

6/6/2024 10:00:00AM

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

Origins Laboratory, Inc.

Y406178-05 (Soil)

Table 915 metals by EPA 6020B

Lead	9.95		0.966	mg/kg	10	B4F0659	06/06/2024	06/07/2024	
Selenium	ND		0.251	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.160	0.401	mg/kg dry	1	2631118	06/24/2024	06/25/2024	U
---------------------	----	-------	-------	-----------	---	---------	------------	------------	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0657 - EPA 3550B										
Blank (B4F0657-BLK1)					Prepared: 06/06/2024 Analyzed: 06/07/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		90.6	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0657 - EPA 3550B

LCS (B4F0657-BS1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000		115	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0657 - EPA 3550B

Matrix Spike (B4F0657-MS1)		Source: Y406178-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0657 - EPA 3550B

Matrix Spike Dup (B4F0657-MSD1)		Source: Y406178-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	1.27	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	1.29	35	
Surrogate: o-Terphenyl	55		"	49.8		110	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0658 - EPA 5030 (soil)										
Blank (B4F0658-BLK1)					Prepared: 06/06/2024 Analyzed: 06/06/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0658 - EPA 5030 (soil)

LCS (B4F0658-BS1)

Prepared: 06/06/2024 Analyzed: 06/06/2024

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0966	0.00200	"	0.100		96.6	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0658 - EPA 5030 (soil)

Matrix Spike (B4F0658-MS1)		Source: Y406178-01			Prepared: 06/06/2024 Analyzed: 06/06/2024					
1,2,4-Trimethylbenzene	0.0748	0.00200	mg/kg	0.100	ND	74.8	70-130			
1,3,5-Trimethylbenzene	0.0737	0.00200	"	0.100	ND	73.7	70-130			
Benzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Ethylbenzene	0.0763	0.00200	"	0.100	ND	76.3	70-130			
Naphthalene	0.100	0.00380	"	0.100	ND	100	70-130			
Toluene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
o-Xylene	0.0706	0.00200	"	0.100	ND	70.6	70-130			
m,p-Xylene	0.148	0.00400	"	0.200	ND	74.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0658 - EPA 5030 (soil)										
Matrix Spike Dup (B4F0658-MSD1)		Source: Y406178-01			Prepared: 06/06/2024 Analyzed: 06/06/2024					
1,2,4-Trimethylbenzene	0.0656	0.00200	mg/kg	0.100	ND	65.6	70-130	13.0	20	QM-07
1,3,5-Trimethylbenzene	0.0659	0.00200	"	0.100	ND	65.9	70-130	11.2	20	QM-07
Benzene	0.0806	0.00200	"	0.100	ND	80.6	70-130	3.32	20	
Ethylbenzene	0.0735	0.00200	"	0.100	ND	73.5	70-130	3.71	20	
Naphthalene	0.0870	0.00380	"	0.100	ND	87.0	70-130	14.0	20	
Toluene	0.0802	0.00200	"	0.100	ND	80.2	70-130	4.63	20	
o-Xylene	0.0688	0.00200	"	0.100	ND	68.8	70-130	2.58	20	QM-07
m,p-Xylene	0.143	0.00400	"	0.200	ND	71.5	70-130	3.73	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

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

Batch B4F0659 - EPA 3050B

Blank (B4F0659-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4F0659-BS1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Arsenic	5.27	0.290	mg/kg	5.00	105	80-120
Barium	507	10.0	"	500	101	80-120
Cadmium	5.49	0.100	"	5.00	110	80-120
Copper	50.7	10.0	"	50.0	101	80-120
Lead	5.25	1.00	"	5.00	105	80-120
Nickel	5.13	1.00	"	5.00	103	80-120
Selenium	10.9	0.260	"	9.50	115	80-120
Silver	5.36	0.100	"	5.00	107	80-120
Zinc	51.3	37.0	"	50.0	103	80-120

Matrix Spike (B4F0659-MS1)

Source: Y406178-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4F0659 - EPA 3050B

Matrix Spike (B4F0659-MS1)		Source: Y406178-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Arsenic	8.17	0.286	mg/kg	4.93	3.01	105	75-125			
Barium	615	9.86	"	493	98.9	105	75-125			
Cadmium	5.62	0.0986	"	4.93	0.171	111	75-125			
Copper	59.5	9.86	"	49.3	9.24	102	75-125			
Lead	15.5	0.986	"	4.93	9.80	116	75-125			
Nickel	15.0	0.986	"	4.93	7.95	143	75-125			QM-07
Selenium	10.1	0.256	"	9.36	0.181	106	75-125			
Silver	5.42	0.0986	"	4.93	0.0411	109	75-125			
Zinc	87.7	36.5	"	49.3	36.6	104	75-125			
Matrix Spike Dup (B4F0659-MSD1)		Source: Y406178-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Arsenic	7.72	0.287	mg/kg	4.96	3.01	95.0	75-125	5.62	20	
Barium	649	9.91	"	496	98.9	111	75-125	5.47	20	
Cadmium	5.72	0.0991	"	4.96	0.171	112	75-125	1.74	20	
Copper	60.0	9.91	"	49.6	9.24	103	75-125	0.838	20	
Lead	15.0	0.991	"	4.96	9.80	104	75-125	3.60	20	
Nickel	12.8	0.991	"	4.96	7.95	98.7	75-125	15.5	20	
Selenium	10.7	0.258	"	9.42	0.181	112	75-125	6.20	20	
Silver	5.60	0.0991	"	4.96	0.0411	112	75-125	3.34	20	
Zinc	84.5	36.7	"	49.6	36.6	96.7	75-125	3.74	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F0656 - EPA 3580

Blank (B4F0656-BLK1)

Prepared: 06/06/2024 Analyzed: 06/09/2024

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

Surrogate: Fluorene-d10	210		ug/kg	200	103	60-130
Surrogate: Anthracene-d10	190		"	200	93.6	60-130
Surrogate: Pyrene-d10	220		"	200	110	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200	95.4	60-130

LCS (B4F0656-BS1)

Prepared: 06/06/2024 Analyzed: 06/09/2024

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	105	70-130
2-Methylnaphthalene	0.213	0.002	"	0.200	106	70-130
Acenaphthene	0.193	0.020	"	0.200	96.6	70-130
Anthracene	0.224	0.020	"	0.200	112	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F0656 - EPA 3580

LCS (B4F0656-BS1)

Prepared: 06/06/2024 Analyzed: 06/09/2024

Benzo (a) anthracene	0.209	0.005	mg/kg	0.200		104	70-130
Benzo (a) pyrene	0.186	0.020	"	0.200		93.1	70-130
Benzo (b) fluoranthene	0.185	0.020	"	0.200		92.7	70-130
Benzo (g,h,i) perylene	0.181	0.020	"	0.200		90.4	70-130
Benzo (k) fluoranthene	0.164	0.020	"	0.200		82.2	70-130
Chrysene	0.203	0.020	"	0.200		102	70-130
Dibenz (a,h) anthracene	0.167	0.020	"	0.200		83.6	70-130
Fluoranthene	0.237	0.020	"	0.200		119	70-130
Fluorene	0.217	0.020	"	0.200		108	70-130
Indeno (1,2,3-cd) pyrene	0.177	0.020	"	0.200		88.3	70-130
Naphthalene	0.201	0.002	"	0.200		100	70-130
Phenanthrene	0.195	0.020	"	0.200		97.7	70-130
Pyrene	0.228	0.020	"	0.200		114	70-130
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130
Surrogate: Anthracene-d10	200		"	200		100	60-130
Surrogate: Pyrene-d10	220		"	200		110	60-130
Surrogate: Benzo (a) pyrene-d12	170		"	200		83.6	60-130

Matrix Spike (B4F0656-MS1)

Source: Y406173-01

Prepared: 06/06/2024 Analyzed: 06/09/2024

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	0.001	105	70-130
2-Methylnaphthalene	0.207	0.002	"	0.200	0.002	103	70-130
Acenaphthene	0.203	0.020	"	0.200	0.001	101	70-130
Anthracene	0.203	0.020	"	0.200	0.003	99.9	70-130
Benzo (a) anthracene	0.226	0.005	"	0.200	0.005	111	70-130
Benzo (a) pyrene	0.193	0.020	"	0.200	0.008	92.7	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.006	104	70-130
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	0.009	103	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F0656 - EPA 3580

Matrix Spike (B4F0656-MS1)		Source: Y406173-01			Prepared: 06/06/2024 Analyzed: 06/09/2024					
Benzo (k) fluoranthene	0.214	0.020	mg/kg	0.200	0.008	103	70-130			
Chrysene	0.199	0.020	"	0.200	0.006	96.3	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	0.015	92.9	70-130			
Fluoranthene	0.244	0.020	"	0.200	0.005	120	70-130			
Fluorene	0.233	0.020	"	0.200	0.007	113	70-130			
Indeno (1,2,3-cd) pyrene	0.211	0.020	"	0.200	0.013	99.0	70-130			
Naphthalene	0.202	0.002	"	0.200	0.003	99.5	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.004	95.2	70-130			
Pyrene	0.255	0.020	"	0.200	0.004	125	70-130			
Surrogate: Fluorene-d10	240		ug/kg	200		119	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	250		"	200		123	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.6	60-130			

Matrix Spike Dup (B4F0656-MSD1)		Source: Y406173-01			Prepared: 06/06/2024 Analyzed: 06/09/2024					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.001	100	70-130	4.68	20	
2-Methylnaphthalene	0.212	0.002	"	0.200	0.002	105	70-130	2.25	20	
Acenaphthene	0.193	0.020	"	0.200	0.001	96.0	70-130	5.22	20	
Anthracene	0.179	0.020	"	0.200	0.003	87.9	70-130	12.6	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	0.005	99.6	70-130	10.3	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	0.008	96.2	70-130	3.66	20	
Benzo (b) fluoranthene	0.185	0.020	"	0.200	0.006	89.7	70-130	14.7	20	
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	0.009	84.8	70-130	18.3	20	
Benzo (k) fluoranthene	0.181	0.020	"	0.200	0.008	86.5	70-130	16.9	20	
Chrysene	0.194	0.020	"	0.200	0.006	94.2	70-130	2.20	20	
Dibenz (a,h) anthracene	0.168	0.020	"	0.200	0.015	76.4	70-130	17.9	20	
Fluoranthene	0.190	0.020	"	0.200	0.005	92.8	70-130	24.8	20	QR-02

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F0656 - EPA 3580

Matrix Spike Dup (B4F0656-MSD1)		Source: Y406173-01			Prepared: 06/06/2024 Analyzed: 06/09/2024					
Fluorene	0.188	0.020	mg/kg	0.200	0.007	90.9	70-130	21.1	20	QR-02
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	0.013	85.0	70-130	14.3	20	
Naphthalene	0.191	0.002	"	0.200	0.003	94.3	70-130	5.31	20	
Phenanthrene	0.185	0.020	"	0.200	0.004	90.4	70-130	5.10	20	
Pyrene	0.220	0.020	"	0.200	0.004	108	70-130	14.8	20	
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F0705 - DTPA Sorbitol Preparation

Blank (B4F0705-BLK1)

Prepared: 06/07/2024 Analyzed: 06/10/2024

Boron ND 0.100 mg/L

Duplicate (B4F0705-DUP1)

Source: Y406168-03

Prepared: 06/07/2024 Analyzed: 06/10/2024

Boron 0.928 0.102 mg/L 0.900 3.12 50

Batch B4F0706 - DTPA Sorbitol Preparation

Blank (B4F0706-BLK1)

Prepared: 06/07/2024 Analyzed: 06/10/2024

Boron ND 0.100 mg/L

Duplicate (B4F0706-DUP1)

Source: Y406097-01

Prepared: 06/07/2024 Analyzed: 06/10/2024

Boron 0.285 0.100 mg/L 0.261 8.87 50

Batch B4F0711 - Saturated Paste Metals

Blank (B4F0711-BLK1)

Prepared: 06/07/2024 Analyzed: 06/11/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4F0711-DUP1)

Source: Y406049-01

Prepared: 06/07/2024 Analyzed: 06/11/2024

Calcium PPM 453 10.0 mg/L 394 13.9 50

SAR ND 0.0100 SAR 2.61 200

Magnesium PPM 157 10.0 mg/L 137 13.4 50

Sodium PPM 270 10.0 " 236 13.3 50

Origins Laboratory, Inc.

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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0717 - Saturated Paste pH/EC										
Duplicate (B4F0717-DUP1)		Source: Y406049-01			Prepared: 06/07/2024 Analyzed: 06/12/2024					
pH	8.12		pH Units		7.85			3.38	25	
Batch B4F1319 - Saturated Paste pH/EC										
Blank (B4F1319-BLK1)		Prepared: 06/13/2024 Analyzed: 06/14/2024								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1319-DUP1)		Source: Y406178-01			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Specific Conductance (EC)	0.817	0.00500	mmhos/cm		0.827			1.18	25	
pH	8.38		pH Units		8.46			0.950	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2631118 - SW846 3060A										
BLANK (1205770910-BLK)					Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.387	mg/kg				-			U
LCS (1205770911-BKS)					Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	3.16	0.316	mg/kg	3.16		99.9	80-120			
DUP (1205770912 D)					Source: 671412001 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.321	mg/kg dry		<0.128		0-50	N/A	50	U
MS (1205770913 S)					Source: 671412001 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	1.61	0.321	mg/kg dry	3.21	<0.128	47.6	75-125			
DUP (1205770914 D)					Source: Y406178-03 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	ND	0.405	mg/kg dry		<0.162		0-50	N/A	50	U
MS (1205770915 S)					Source: Y406178-03 Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	3.73	0.405	mg/kg dry	4.05	<0.162	89.7	75-125			
ILCS (1205770916-ILCS)					Prepared: 06/24/2024 Analyzed: 06/25/2024					
Hexavalent Chromium	6.51	0.314	mg/kg	6.41		101	80-120			

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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

July 08, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility****Project Number - 09A1417392**

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. June 26, 2024. This project is associated with Origins project number Y406744-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-B03@19'	Y406744-01	Soil	June 26, 2024 10:00	06/26/2024 15:56
TB01-B04@19'	Y406744-02	Soil	June 26, 2024 10:05	06/26/2024 15:56
TB01-B05@19'	Y406744-03	Soil	June 26, 2024 10:10	06/26/2024 15:56
TB01-B06@19'	Y406744-04	Soil	June 26, 2024 10:15	06/26/2024 15:56
TB01-B07@19'	Y406744-05	Soil	June 26, 2024 10:20	06/26/2024 15:56
TB01-S01@8'	Y406744-06	Soil	June 26, 2024 10:30	06/26/2024 15:56
TB01-S02@8'	Y406744-07	Soil	June 26, 2024 10:35	06/26/2024 15:56
TB01-S03@8'	Y406744-08	Soil	June 26, 2024 10:40	06/26/2024 15:56
TB01-S04@8'	Y406744-09	Soil	June 26, 2024 10:45	06/26/2024 15:56

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS
LABORATORY LLC

Client: Ensolum

Address:

Telephone Number: 970 590-2134

Email Address: mgt@ensolum.com

Project Manager: Jeremy Espinoza

Project Name: PSC 15-10 FSV 24A & 4 O SA Facility

Project Number: 09A1417392

Collected By: Kendra Correll

Invoice/Billing Info: Impacted

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							BTX	THF	THP	THF	THP	THF	THP	THF	THP	THF	
1	TB01-B03@19'	6/26/24	1000	3	S	UNP	X	X	X	X	X	X	X	X	X	X	Boron & Cu
2	TB01-B04@19'		1005														added to all
3	TB01-B05@19'		1010														samples per
4	TB01-B06@19'		1015														hannahs email
5	TB01-B07@19'		1020														on 6/28 JB
6	TB01-S01@8'		1030														
7	TB01-S02@8'		1035														
8	TB01-S03@8'		1040														
9	TB01-S04@8'		1045														
10																	

Relinquished By: <i>[Signature]</i>	Date: 6/26/24	Time: 1536	Received By: <i>[Signature]</i>	Date: 6/26/24	Time: 1550
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Temp Received - 5 Received On Ice? ☒ Yes ☐ No

1775 Elk Place Denver, Co 80211 | 303.433.1322 | originslab.com

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4400A44

Client: Ensolum

Client Project ID: PSC 15-10 FSV 24A4

Checklist Completed by: TJV

Shipped Via: HL

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

Date/time completed: 6/26/24

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7005

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

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

Reviewed by (Project Manager): JP

Date/Time Reviewed: 6/27/24

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B03@19'
6/26/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y406744-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	143	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/26/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2641	HK	06/26/2024	06/27/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	68.3	5.00	"	25	"	ZZZ	"	06/27/2024	

Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130			"	"	06/27/2024
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	177 %	70-130			"	"	" S-GC

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B03@19'
6/26/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y406744-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.063	0.002	mg/kg	1	B4F2645	agile	06/26/2024	06/27/2024	
2-Methylnaphthalene	0.137	0.002	"	"	"	agile	"	"	
Acenaphthene	0.020	0.020	"	"	"	agile	"	"	
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.026	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.4 %	60-130	"	"	"

Table 915 metals by EPA 6020B

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B03@19'

6/26/2024 10:00:00AM

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

Origins Laboratory, Inc.

Y406744-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.672	0.263	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Barium	35.1	9.07	"	"	"	HJD	"	"
Cadmium	ND	0.0907	"	"	"	HJD	"	"
Copper	ND	9.07	"	"	"	HJD	"	"
Lead	3.63	0.907	"	"	"	HJD	"	"
Nickel	5.12	0.907	"	"	"	HJD	"	"
Selenium	ND	0.236	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B04@19'

6/26/2024 10:05:00AM

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

Origins Laboratory, Inc.
Y406744-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	94.8	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/26/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.1 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2641	HK	06/26/2024	06/27/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	29.8	5.00	"	25	"	ZZZ	"	06/27/2024	

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	06/27/2024
Surrogate: Toluene-d8	91.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B04@19'

6/26/2024 10:05:00AM

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

Origins Laboratory, Inc.
Y406744-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.030	0.002	mg/kg	1	B4F2645	agile	06/26/2024	06/27/2024	
2-Methylnaphthalene	0.070	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	109 %	60-130	"	"	"
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B04@19'

6/26/2024 10:05:00AM

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

Origins Laboratory, Inc.
Y406744-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.797	0.282	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Barium	28.0	9.71	"	"	"	HJD	"	"
Cadmium	ND	0.0971	"	"	"	HJD	"	"
Copper	ND	9.71	"	"	"	HJD	"	"
Lead	3.36	0.971	"	"	"	HJD	"	"
Nickel	6.70	0.971	"	"	"	HJD	"	"
Selenium	0.394	0.252	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B05@19'
6/26/2024 10:10:00AM

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

Origins Laboratory, Inc.
Y406744-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	618	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/26/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	90.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0500	mg/kg	25	B4F2641	HK	06/26/2024	06/27/2024	R-05, U
1,3,5-Trimethylbenzene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Benzene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Ethylbenzene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Toluene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Xylenes, total	ND	0.0500	"	"	"	HK	"	"	R-05, U
Gasoline Range Hydrocarbons	626	50.0	"	250	"	ZZZ	"	06/27/2024	

Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130			"	"	06/27/2024
Surrogate: Toluene-d8	91.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	248 %	70-130			"	"	" S-GC

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B05@19'

6/26/2024 10:10:00AM

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

Origins Laboratory, Inc.
Y406744-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	1.25	0.020	mg/kg	10	B4F2645	agile	06/26/2024	06/27/2024	
2-Methylnaphthalene	3.45	0.020	"	"	"	agile	"	"	
Acenaphthene	0.106	0.020	"	1	"	agile	"	06/28/2024	
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.221	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.006	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	87.7 %	60-130	"	"	"

Table 915 metals by EPA 6020B

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B05@19'

6/26/2024 10:10:00AM

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

Origins Laboratory, Inc.
Y406744-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.48	0.275	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Barium	57.4	9.49	"	"	"	HJD	"	"
Cadmium	ND	0.0949	"	"	"	HJD	"	"
Copper	11.7	9.49	"	"	"	HJD	"	"
Lead	6.38	0.949	"	"	"	HJD	"	"
Nickel	5.55	0.949	"	"	"	HJD	"	"
Selenium	6.67	0.247	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B06@19'
6/26/2024 10:15:00AM

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

Origins Laboratory, Inc.
Y406744-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024
-------	----	--------	------	---	---------	-----	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1330	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/26/2024
Residual Range Organics (C28-C40)	606	100	"	"	"	ZZZ	"	"

Surrogate: o-Terphenyl	92.6 %	50-150			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0500	mg/kg	25	B4F2641	HK	06/26/2024	06/27/2024	R-05, U
1,3,5-Trimethylbenzene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Benzene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Ethylbenzene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Toluene	ND	0.0500	"	"	"	HK	"	"	R-05, U
Xylenes, total	ND	0.0500	"	"	"	HK	"	"	R-05, U
Gasoline Range Hydrocarbons	1160	50.0	"	250	"	ZZZ	"	06/27/2024	

Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130			"	"	06/27/2024
Surrogate: Toluene-d8	88.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	253 %	70-130			"	"	" S-GC

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B06@19'
6/26/2024 10:15:00AM

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

Origins Laboratory, Inc.
Y406744-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	2.50	0.020	mg/kg	10	B4F2645	agile	06/26/2024	06/27/2024	
2-Methylnaphthalene	6.11	0.020	"	"	"	agile	"	"	
Acenaphthene	0.396	0.020	"	1	"	agile	"	06/28/2024	
Anthracene	0.036	0.020	"	"	"	agile	"	"	
Benzo (a) anthracene	0.013	0.005	"	"	"	agile	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	0.061	0.020	"	"	"	agile	"	"	
Benzo (k) fluoranthene	0.042	0.020	"	"	"	agile	"	"	
Chrysene	0.044	0.020	"	"	"	agile	"	"	
Dibenz (a,h) anthracene	0.033	0.020	"	"	"	agile	"	"	
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.591	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	0.034	0.020	"	"	"	agile	"	"	
Naphthalene	0.004	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	105 %	60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %	60-130			"	"	"	
Surrogate: Pyrene-d10	47.6 %	60-130			"	"	"	S-04
Surrogate: Benzo (a) pyrene-d12	91.0 %	60-130			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	0.738	0.242	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
---------	-------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B06@19'

6/26/2024 10:15:00AM

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

Origins Laboratory, Inc.

Y406744-04 (Soil)

Table 915 metals by EPA 6020B

Barium	23.9	8.34	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Cadmium	ND	0.0834	"	"	"	HJD	"	"
Copper	ND	8.34	"	"	"	HJD	"	"
Lead	2.07	0.834	"	"	"	HJD	"	"
Nickel	3.55	0.834	"	"	"	HJD	"	"
Selenium	0.328	0.217	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B07@19'

6/26/2024 10:20:00AM

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

Origins Laboratory, Inc. Y406744-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.342	0.0989	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024
-------	-------	--------	------	---	---------	-----	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	3210	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/27/2024
Residual Range Organics (C28-C40)	1660	100	"	"	"	ZZZ	"	"

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	56.5	0.500	mg/kg	250	B4F2641	ZZZ	06/26/2024	06/27/2024
1,3,5-Trimethylbenzene	19.2	0.500	"	"	"	ZZZ	"	"
Benzene	2.28	0.500	"	"	"	ZZZ	"	"
Ethylbenzene	9.58	0.500	"	"	"	ZZZ	"	"
Toluene	ND	0.500	"	"	"	ZZZ	"	" R-05, U
Xylenes, total	52.4	0.500	"	"	"	ZZZ	"	"
Gasoline Range Hydrocarbons	3390	50.0	"	"	"	ZZZ	"	"

Surrogate: 1,2-Dichloroethane-d4	83.0 %	70-130			"	"	"
Surrogate: Toluene-d8	133 %	70-130			"	"	" S-GC
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	4.95	0.020	mg/kg	10	B4F2645	agile	06/26/2024	06/27/2024
---------------------	------	-------	-------	----	---------	-------	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B07@19'

6/26/2024 10:20:00AM

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

Origins Laboratory, Inc.
Y406744-05 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	9.87	0.020	mg/kg	10	B4F2645	agile	06/26/2024	06/27/2024	
Acenaphthene	0.720	0.020	"	1	"	agile	"	06/28/2024	
Anthracene	0.084	0.020	"	"	"	agile	"	"	
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	0.082	0.020	"	"	"	agile	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	0.021	0.020	"	"	"	agile	"	"	
Fluorene	0.810	0.200	"	10	"	agile	"	06/27/2024	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	1	"	agile	"	06/28/2024	U
Naphthalene	2.56	0.020	"	10	"	agile	"	06/27/2024	
Pyrene	0.071	0.020	"	1	"	agile	"	06/28/2024	

Surrogate: Fluorene-d10	104 %	60-130			"	"	"
Surrogate: Anthracene-d10	99.7 %	60-130			"	"	"
Surrogate: Pyrene-d10	91.3 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	90.2 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	2.18	0.250	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B07@19'

6/26/2024 10:20:00AM

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

Origins Laboratory, Inc.
Y406744-05 (Soil)

Table 915 metals by EPA 6020B

Barium	30.0	8.62	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Cadmium	ND	0.0862	"	"	"	HJD	"	"
Copper	ND	8.62	"	"	"	HJD	"	"
Lead	5.28	0.862	"	"	"	HJD	"	"
Nickel	4.38	0.862	"	"	"	HJD	"	"
Selenium	0.871	0.224	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S01@8'

6/26/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y406744-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.229	0.101	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024	
-------	-------	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.3	25.0	mg/kg	1	B4F2601	ADM	06/26/2024	06/27/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	86.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2641	ZZZ	06/26/2024	06/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.835	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S01@8'

6/26/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y406744-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.019	0.002	mg/kg	1	B4F2645	agile	06/26/2024	06/27/2024	
2-Methylnaphthalene	0.038	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	94.7 %	60-130			"	"	"
Surrogate: Anthracene-d10	95.7 %	60-130			"	"	"
Surrogate: Pyrene-d10	95.9 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	114 %	60-130			"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S01@8'

6/26/2024 10:30:00AM

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

Origins Laboratory, Inc.

Y406744-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.29	0.278	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Barium	48.3	9.59	"	"	"	HJD	"	"
Cadmium	ND	0.0959	"	"	"	HJD	"	"
Copper	ND	9.59	"	"	"	HJD	"	"
Lead	5.52	0.959	"	"	"	HJD	"	"
Nickel	5.28	0.959	"	"	"	HJD	"	"
Selenium	ND	0.249	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S02@8'

6/26/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y406744-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024
-------	----	-------	------	---	---------	-----	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1060	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/27/2024
Residual Range Organics (C28-C40)	553	100	"	"	"	ZZZ	"	"

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00214	0.00200	mg/kg	1	B4F2641	ZZZ	06/26/2024	06/27/2024
1,3,5-Trimethylbenzene	0.160	0.00200	"	"	"	ZZZ	"	"
Benzene	ND	0.00200	"	"	"	ZZZ	"	" U
Ethylbenzene	0.00222	0.00200	"	"	"	ZZZ	"	"
Toluene	0.00760	0.00200	"	"	"	ZZZ	"	"
Xylenes, total	0.0745	0.00200	"	"	"	ZZZ	"	"
Gasoline Range Hydrocarbons	434	5.00	"	25	"	ZZZ	"	06/27/2024

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"	06/27/2024
Surrogate: Toluene-d8	93.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	2750 %	70-130			"	"	06/27/2024 GC

PAH by EPA 8270E

1-Methylnaphthalene	0.887	0.002	mg/kg	1	B4F2645	agile	06/26/2024	06/27/2024
---------------------	-------	-------	-------	---	---------	-------	------------	------------

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S02@8'

6/26/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y406744-07 (Soil)

PAH by EPA 8270E

2-Methylnaphthalene	1.72	0.020	mg/kg	10	B4F2645	agile	06/26/2024	07/01/2024	
Acenaphthene	0.397	0.020	"	1	"	agile	"	06/27/2024	
Anthracene	0.050	0.020	"	"	"	agile	"	"	
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	0.039	0.020	"	"	"	agile	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.416	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.005	0.002	"	"	"	agile	"	"	
Pyrene	0.031	0.020	"	"	"	agile	"	"	

Surrogate: Fluorene-d10	90.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.08	0.263	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S02@8'

6/26/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y406744-07 (Soil)

Table 915 metals by EPA 6020B

Barium	22.3	9.06	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Cadmium	ND	0.0906	"	"	"	HJD	"	"
Copper	ND	9.06	"	"	"	HJD	"	"
Lead	3.30	0.906	"	"	"	HJD	"	"
Nickel	4.57	0.906	"	"	"	HJD	"	"
Selenium	0.293	0.236	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S03@8'

6/26/2024 10:40:00AM

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

Origins Laboratory, Inc.
Y406744-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.696	0.0994	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024
-------	-------	--------	------	---	---------	-----	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	123	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/27/2024
Residual Range Organics (C28-C40)	109	100	"	"	"	ZZZ	"	"

Surrogate: o-Terphenyl	103 %	50-150	"	"	"	"	"
------------------------	-------	--------	---	---	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2641	ZZZ	06/26/2024	06/27/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	83.3 %	70-130	"	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"	"

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S03@8'

6/26/2024 10:40:00AM

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

Origins Laboratory, Inc.
Y406744-08 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.016	0.002	mg/kg	1	B4F2645	agile	06/26/2024	06/28/2024	
2-Methylnaphthalene	0.017	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	93.8 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S03@8'

6/26/2024 10:40:00AM

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

Origins Laboratory, Inc.

Y406744-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.87	0.247	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Barium	58.8	8.51	"	"	"	HJD	"	"
Cadmium	0.156	0.0851	"	"	"	HJD	"	"
Copper	12.8	8.51	"	"	"	HJD	"	"
Lead	9.16	0.851	"	"	"	HJD	"	"
Nickel	7.36	0.851	"	"	"	HJD	"	"
Selenium	ND	0.221	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S04@8'

6/26/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y406744-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0992	mg/L	1	B4F2804	ACC	06/28/2024	07/01/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2601	ZZZ	06/26/2024	06/27/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	96.2 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2641	ZZZ	06/26/2024	06/27/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S04@8'

6/26/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y406744-09 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2645	agile	06/26/2024	06/27/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	85.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	92.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S04@8'

6/26/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y406744-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.964	0.252	mg/kg	10	B4F2644	HJD	06/26/2024	06/27/2024
Barium	19.8	8.69	"	"	"	HJD	"	"
Cadmium	ND	0.0869	"	"	"	HJD	"	"
Copper	ND	8.69	"	"	"	HJD	"	"
Lead	3.16	0.869	"	"	"	HJD	"	"
Nickel	2.77	0.869	"	"	"	HJD	"	"
Selenium	ND	0.226	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2601 - EPA 3550B

Blank (B4F2601-BLK1)

Prepared: 06/26/2024 Analyzed: 06/26/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.8	50-150			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2601 - EPA 3550B

LCS (B4F2601-BS1)

Prepared: 06/26/2024 Analyzed: 06/26/2024

Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	996	200	"	1000		99.6	70-130			
Surrogate: o-Terphenyl	60		"	49.8		121	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2601 - EPA 3550B

Matrix Spike (B4F2601-MS1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/26/2024					
Diesel (C10-C28)	906	50.0	mg/kg	1000	ND	90.6	70-130			
Residual Range Organics (C28-C40)	995	200	"	1000	ND	99.5	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.7	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2601 - EPA 3550B

Matrix Spike Dup (B4F2601-MSD1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/26/2024					
Diesel (C10-C28)	905	50.0	mg/kg	1000	ND	90.5	70-130	0.0734	35	
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130	0.130	35	
Surrogate: o-Terphenyl	46		"	49.8		92.7	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2641 - EPA 5030 (soil)										
Blank (B4F2641-BLK1)					Prepared: 06/26/2024 Analyzed: 06/26/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2641 - EPA 5030 (soil)

LCS (B4F2641-BS1)

Prepared: 06/26/2024 Analyzed: 06/26/2024

1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100		87.5	70-130			
1,3,5-Trimethylbenzene	0.0875	0.00200	"	0.100		87.5	70-130			
Benzene	0.0942	0.00200	"	0.100		94.2	70-130			
Ethylbenzene	0.0876	0.00200	"	0.100		87.6	70-130			
Naphthalene	0.118	0.00380	"	0.100		118	70-130			
Toluene	0.0863	0.00200	"	0.100		86.3	70-130			
o-Xylene	0.0863	0.00200	"	0.100		86.3	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2641 - EPA 5030 (soil)

Matrix Spike (B4F2641-MS1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/26/2024					
1,2,4-Trimethylbenzene	0.0828	0.00200	mg/kg	0.100	ND	82.8	70-130			
1,3,5-Trimethylbenzene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
Ethylbenzene	0.0813	0.00200	"	0.100	ND	81.3	70-130			
Naphthalene	0.137	0.00380	"	0.100	0.00148	135	70-130			QM-07
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130			
o-Xylene	0.0809	0.00200	"	0.100	ND	80.9	70-130			
m,p-Xylene	0.162	0.00400	"	0.200	ND	80.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2641 - EPA 5030 (soil)

Matrix Spike Dup (B4F2641-MSD1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/26/2024					
1,2,4-Trimethylbenzene	0.0800	0.00200	mg/kg	0.100	ND	80.0	70-130	3.44	20	
1,3,5-Trimethylbenzene	0.0784	0.00200	"	0.100	ND	78.4	70-130	4.07	20	
Benzene	0.0855	0.00200	"	0.100	ND	85.5	70-130	3.47	20	
Ethylbenzene	0.0793	0.00200	"	0.100	ND	79.3	70-130	2.44	20	
Naphthalene	0.130	0.00380	"	0.100	0.00148	128	70-130	5.17	20	
Toluene	0.0795	0.00200	"	0.100	ND	79.5	70-130	1.99	20	
o-Xylene	0.0797	0.00200	"	0.100	ND	79.7	70-130	1.54	20	
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.0	70-130	2.43	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2644 - EPA 3050B

Blank (B4F2644-BLK1)

Prepared: 06/26/2024 Analyzed: 06/27/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4F2644-BS1)

Prepared: 06/26/2024 Analyzed: 06/27/2024

Arsenic	5.84	0.290	mg/kg	5.00	117	80-120
Barium	559	10.0	"	500	112	80-120
Cadmium	5.80	0.100	"	5.00	116	80-120
Copper	57.9	10.0	"	50.0	116	80-120
Lead	5.37	1.00	"	5.00	107	80-120
Nickel	5.61	1.00	"	5.00	112	80-120
Selenium	5.56	0.260	"	5.00	111	80-120
Silver	5.76	0.100	"	5.00	115	80-120
Zinc	56.6	37.0	"	50.0	113	80-120

Matrix Spike (B4F2644-MS1)

Source: Y406742-01

Prepared: 06/26/2024 Analyzed: 06/27/2024

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
Batch B4F2644 - EPA 3050B										
Matrix Spike (B4F2644-MS1)		Source: Y406742-01			Prepared: 06/26/2024 Analyzed: 06/27/2024					
Arsenic	6.42	0.283	mg/kg	4.89	0.583	119	75-125			
Barium	535	9.77	"	489	13.1	107	75-125			
Cadmium	5.42	0.0977	"	4.89	0.0149	111	75-125			
Copper	58.4	9.77	"	48.9	1.08	117	75-125			
Lead	6.70	0.977	"	4.89	1.47	107	75-125			
Nickel	6.27	0.977	"	4.89	0.740	113	75-125			
Selenium	5.46	0.254	"	4.89	ND	112	75-125			
Silver	5.51	0.0977	"	4.89	ND	113	75-125			
Zinc	61.7	36.2	"	48.9	ND	126	75-125			QM-07
Matrix Spike Dup (B4F2644-MSD1)		Source: Y406742-01			Prepared: 06/26/2024 Analyzed: 06/27/2024					
Arsenic	6.17	0.285	mg/kg	4.91	0.583	114	75-125	3.98	20	
Barium	539	9.81	"	491	13.1	107	75-125	0.833	20	
Cadmium	5.27	0.0981	"	4.91	0.0149	107	75-125	2.72	20	
Copper	56.7	9.81	"	49.1	1.08	113	75-125	2.96	20	
Lead	6.89	0.981	"	4.91	1.47	111	75-125	2.91	20	
Nickel	6.21	0.981	"	4.91	0.740	111	75-125	0.958	20	
Selenium	5.10	0.255	"	4.91	ND	104	75-125	6.84	20	
Silver	5.27	0.0981	"	4.91	ND	108	75-125	4.42	20	
Zinc	61.8	36.3	"	49.1	ND	126	75-125	0.149	20	QM-07

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2645 - EPA 3580

Blank (B4F2645-BLK1)

Prepared: 06/26/2024 Analyzed: 06/27/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	190		"	200		93.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		92.6	60-130			

LCS (B4F2645-BS1)

Prepared: 06/26/2024 Analyzed: 06/27/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200		98.2	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200		95.4	70-130			
Acenaphthene	0.177	0.020	"	0.200		88.5	70-130			
Anthracene	0.174	0.020	"	0.200		87.0	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2645 - EPA 3580

LCS (B4F2645-BS1)

Prepared: 06/26/2024 Analyzed: 06/27/2024

Benzo (a) anthracene	0.212	0.005	mg/kg	0.200		106	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		93.2	70-130			
Benzo (b) fluoranthene	0.212	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.181	0.020	"	0.200		90.3	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200		96.3	70-130			
Chrysene	0.199	0.020	"	0.200		99.3	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200		95.8	70-130			
Fluoranthene	0.201	0.020	"	0.200		100	70-130			
Fluorene	0.187	0.020	"	0.200		93.3	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200		92.6	70-130			
Naphthalene	0.189	0.002	"	0.200		94.4	70-130			
Phenanthrene	0.196	0.020	"	0.200		98.1	70-130			
Pyrene	0.194	0.020	"	0.200		97.2	70-130			
Surrogate: Fluorene-d10	180		ug/kg	200		89.9	60-130			
Surrogate: Anthracene-d10	180		"	200		90.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.2	60-130			

Matrix Spike (B4F2645-MS1)

Source: Y406744-06

Prepared: 06/26/2024 Analyzed: 06/27/2024

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.019	97.7	70-130			
2-Methylnaphthalene	0.239	0.002	"	0.200	0.038	101	70-130			
Acenaphthene	0.210	0.020	"	0.200	0.012	98.7	70-130			
Anthracene	0.185	0.020	"	0.200	ND	92.4	70-130			
Benzo (a) anthracene	0.213	0.005	"	0.200	ND	107	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200	0.001	108	70-130			
Benzo (b) fluoranthene	0.236	0.020	"	0.200	0.0003	118	70-130			
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.001	100	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2645 - EPA 3580

Matrix Spike (B4F2645-MS1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/27/2024					
Benzo (k) fluoranthene	0.223	0.020	mg/kg	0.200	0.001	111	70-130			
Chrysene	0.197	0.020	"	0.200	0.002	97.4	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.7	70-130			
Fluoranthene	0.210	0.020	"	0.200	0.0008	105	70-130			
Fluorene	0.218	0.020	"	0.200	0.011	103	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.4	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.223	0.020	"	0.200	0.019	102	70-130			
Pyrene	0.236	0.020	"	0.200	0.0006	117	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.3	60-130			

Matrix Spike Dup (B4F2645-MSD1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/27/2024					
1-Methylnaphthalene	0.236	0.002	mg/kg	0.200	0.019	109	70-130	9.78	20	
2-Methylnaphthalene	0.281	0.002	"	0.200	0.038	122	70-130	16.3	20	
Acenaphthene	0.198	0.020	"	0.200	0.012	92.8	70-130	5.78	20	
Anthracene	0.202	0.020	"	0.200	ND	101	70-130	8.90	20	
Benzo (a) anthracene	0.212	0.005	"	0.200	ND	106	70-130	0.513	20	
Benzo (a) pyrene	0.183	0.020	"	0.200	0.001	90.8	70-130	17.2	20	
Benzo (b) fluoranthene	0.227	0.020	"	0.200	0.0003	113	70-130	4.08	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	0.001	109	70-130	8.11	20	
Benzo (k) fluoranthene	0.183	0.020	"	0.200	0.001	91.2	70-130	19.7	20	
Chrysene	0.204	0.020	"	0.200	0.002	101	70-130	3.43	20	
Dibenz (a,h) anthracene	0.191	0.020	"	0.200	ND	95.5	70-130	4.29	20	
Fluoranthene	0.217	0.020	"	0.200	0.0008	108	70-130	3.30	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2645 - EPA 3580

Matrix Spike Dup (B4F2645-MSD1)		Source: Y406744-06			Prepared: 06/26/2024 Analyzed: 06/27/2024					
Fluorene	0.222	0.020	mg/kg	0.200	0.011	105	70-130	1.69	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.8	70-130	2.80	20	
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130	0.163	20	
Phenanthrene	0.222	0.020	"	0.200	0.019	102	70-130	0.492	20	
Pyrene	0.246	0.020	"	0.200	0.0006	123	70-130	4.53	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		89.0	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2804 - DTPA Sorbitol Preparation										
Blank (B4F2804-BLK1)					Prepared: 06/28/2024 Analyzed: 07/01/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4F2804-DUP1)					Source: Y406093-05 Prepared: 06/28/2024 Analyzed: 07/01/2024					
Boron	0.358	0.101	mg/L		0.389			8.31	50	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

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

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

July 16, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility**

Project Number - 09A1417392

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. June 28, 2024. This project is associated with Origins project number Y406853-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-S05@8'	Y406853-01	Soil	June 28, 2024 11:40	06/28/2024 16:41
TB01-S05@18'	Y406853-02	Soil	June 28, 2024 11:45	06/28/2024 16:41
TB01-E03@8'	Y406853-03	Soil	June 28, 2024 11:30	06/28/2024 16:41
TB01-E03@18'	Y406853-04	Soil	June 28, 2024 11:35	06/28/2024 16:41
TB01-E04@8'	Y406853-05	Soil	June 28, 2024 11:20	06/28/2024 16:41
TB01-E04@18'	Y406853-06	Soil	June 28, 2024 11:25	06/28/2024 16:41
TB01-E05@8'	Y406853-07	Soil	June 28, 2024 11:10	06/28/2024 16:41
TB01-E05@18'	Y406853-08	Soil	June 28, 2024 11:15	06/28/2024 16:41
TB01-N02@8'	Y406853-09	Soil	June 28, 2024 10:45	06/28/2024 16:41
TB01-N02@18'	Y406853-10	Soil	June 28, 2024 10:50	06/28/2024 16:41
TB01-N03@8'	Y406853-11	Soil	June 28, 2024 11:00	06/28/2024 16:41
TB01-N03@18'	Y406853-12	Soil	June 28, 2024 11:05	06/28/2024 16:41

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS

LABORATORY LLC

Client:

Ensolum

Address:

Telephone Number:

Email Address:

KMG-Team

ORIGINS WORK ORDER #

4400853

Page 1 of 2

Project Manager:

Jeremy Espinoza

Key:

Project Name:

PSC 15-10 FSV 24A & 4 SA Facility

Project Number:

09A1417392

Collected By:

JA

Invoice Billing Info:

OKY/Impacted

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							BTEX+N	THM	PAHs	pH	CO2	Ag, Ba	As, Cu	Pb, Ni	Se		
1	TB01-S0508	6-28	1140	3	S	UNP	X	X	X	X	X	X	X	X	X		
2	TB01-S0508	1	1145														
3	TB01-E0308		1130														
4	TB01-E0308		1135														
5	TB01-E0408		1120														
6	TB01-E0408		1125														
7	TB01-E0508		1110														
8	TB01-E0508		1115														
9	TB01-N0208		1045														
10	TB01-N0208	V	1050	V	V	V	V	V	V	V	V	V	V	V	V		

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Jeremy Espinoza	6-28-24	1642	JA	6/28/24	16:41
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

For Lab Sample Receiving Only:

Temp Received-

2.9

Received On Ice?

☒ Yes ☐ No

☐ Standard

☐ 48 Hr ☐ 72 Hr

☒ SAME DAY ☐ 24 Hr

Turnaround Time

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS

ORIGINS WORK ORDER #

Page 2 of 2

LABORATORY LLC

Client:

Ensolum

Address:

Project Manager:

Jeremy Espinoza

Key:

Project Name:

Px1510FSV24A+416SA Facility

W=Water

Project Number:

09A1417392

GW=Groundwater

Collected By:

JH

SW=Surface Water

Telephone Number:

KMG Team

Invoice/Billing Info:

OK/Impacted

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis											Comments		
							BTEX+N	TMBs	TPH	PAHs	PH	Boron	As, Ba	Cd, Cu	Pb, Ni	Se				
1	TB01-N0308	6:28	1100	3	S	UNP														
2	TB01-N0308	✓	1105	✓	✓	✓														
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

For Lab Sample Receiving Only:

Temp Received: 29

Received On Ice?

Yes

No

Standard

48 Hr

72 Hr

Turnaround Time

SAME DAY

24 Hr

Origins Laboratory, Inc.

Bynon

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4406853

Client: Ensolum

Client Project ID: PSC 15-10

Checklist Completed by: TST/WW

Shipped Via: HV

Date/time completed: 6/28/24

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 29 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T005

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6/28/24

Origins Laboratory, Inc.

[Signature]

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S05@8'

6/28/2024 11:40:00AM

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

Origins Laboratory, Inc.
Y406853-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/28/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	86.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/28/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	
Surrogate: Toluene-d8	89.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S05@8'

6/28/2024 11:40:00AM

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

Origins Laboratory, Inc.
Y406853-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S05@8'

6/28/2024 11:40:00AM

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

Origins Laboratory, Inc.
Y406853-01 (Soil)

pH in Soil by 9045D

pH	4.77	pH Units	1	B4G0124	EAL	07/01/2024	07/01/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.669	0.278	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	19.3	9.59	"	"	"	HJD	"	"
Cadmium	ND	0.0959	"	"	"	HJD	"	"
Copper	ND	9.59	"	"	"	HJD	"	"
Lead	3.42	0.959	"	"	"	HJD	"	"
Nickel	3.33	0.959	"	"	"	HJD	"	"
Selenium	ND	0.249	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S05@18'
6/28/2024 11:45:00AM

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

Origins Laboratory, Inc.
Y406853-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/28/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	87.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/28/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	
Surrogate: Toluene-d8	89.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S05@18'

6/28/2024 11:45:00AM

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

Origins Laboratory, Inc.
Y406853-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S05@18'

6/28/2024 11:45:00AM

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

Origins Laboratory, Inc.
Y406853-02 (Soil)

pH in Soil by 9045D

pH	5.28	pH Units	1	B4G0124	EAL	07/01/2024	07/01/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.732	0.271	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	27.1	9.35	"	"	"	HJD	"	"
Cadmium	ND	0.0935	"	"	"	HJD	"	"
Copper	ND	9.35	"	"	"	HJD	"	"
Lead	3.28	0.935	"	"	"	HJD	"	"
Nickel	5.03	0.935	"	"	"	HJD	"	"
Selenium	ND	0.243	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E03@8'

6/28/2024 11:30:00AM

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

Origins Laboratory, Inc.
Y406853-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	91.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/28/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E03@8'

6/28/2024 11:30:00AM

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

Origins Laboratory, Inc.
Y406853-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E03@8'

6/28/2024 11:30:00AM

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

Origins Laboratory, Inc.
Y406853-03 (Soil)

pH in Soil by 9045D

pH	6.91	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.752	0.246	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	24.7	8.49	"	"	"	HJD	"	"
Cadmium	ND	0.0849	"	"	"	HJD	"	"
Copper	ND	8.49	"	"	"	HJD	"	"
Lead	3.47	0.849	"	"	"	HJD	"	"
Nickel	1.76	0.849	"	"	"	HJD	"	"
Selenium	ND	0.221	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E03@18'
6/28/2024 11:35:00AM

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

Origins Laboratory, Inc.
Y406853-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0997	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/28/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E03@18'

6/28/2024 11:35:00AM

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

Origins Laboratory, Inc.
Y406853-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.3 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E03@18'

6/28/2024 11:35:00AM

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

Origins Laboratory, Inc.
Y406853-04 (Soil)

pH in Soil by 9045D

pH	6.09	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.777	0.260	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	30.6	8.95	"	"	"	HJD	"	"
Cadmium	ND	0.0895	"	"	"	HJD	"	"
Copper	ND	8.95	"	"	"	HJD	"	"
Lead	4.71	0.895	"	"	"	HJD	"	"
Nickel	6.61	0.895	"	"	"	HJD	"	"
Selenium	ND	0.233	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E04@8'

6/28/2024 11:20:00AM

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

Origins Laboratory, Inc.
Y406853-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	86.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E04@8'

6/28/2024 11:20:00AM

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

Origins Laboratory, Inc.
Y406853-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	92.4 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E04@8'

6/28/2024 11:20:00AM

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

Origins Laboratory, Inc.
Y406853-05 (Soil)

pH in Soil by 9045D

pH	7.48	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.595	0.266	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	17.1	9.18	"	"	"	HJD	"	"
Cadmium	ND	0.0918	"	"	"	HJD	"	"
Copper	ND	9.18	"	"	"	HJD	"	"
Lead	3.08	0.918	"	"	"	HJD	"	"
Nickel	1.42	0.918	"	"	"	HJD	"	"
Selenium	ND	0.239	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E04@18'
6/28/2024 11:25:00AM

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

Origins Laboratory, Inc.
Y406853-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0986	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	85.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
Surrogate: Toluene-d8	92.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E04@18'

6/28/2024 11:25:00AM

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

Origins Laboratory, Inc.
Y406853-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E04@18'

6/28/2024 11:25:00AM

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

Origins Laboratory, Inc.
Y406853-06 (Soil)

pH in Soil by 9045D

pH	5.27	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.273	0.272	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	11.3	9.38	"	"	"	HJD	"	"
Cadmium	ND	0.0938	"	"	"	HJD	"	"
Copper	ND	9.38	"	"	"	HJD	"	"
Lead	1.64	0.938	"	"	"	HJD	"	"
Nickel	1.60	0.938	"	"	"	HJD	"	"
Selenium	ND	0.244	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E05@8'

6/28/2024 11:10:00AM

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

Origins Laboratory, Inc.
Y406853-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	88.1 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	
Surrogate: Toluene-d8	89.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E05@8'

6/28/2024 11:10:00AM

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

Origins Laboratory, Inc.
Y406853-07 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.8 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E05@8'

6/28/2024 11:10:00AM

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

Origins Laboratory, Inc.
Y406853-07 (Soil)

pH in Soil by 9045D

pH	8.22	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.66	0.282	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	51.8	9.74	"	"	"	HJD	"	"
Cadmium	ND	0.0974	"	"	"	HJD	"	"
Copper	ND	9.74	"	"	"	HJD	"	"
Lead	5.93	0.974	"	"	"	HJD	"	"
Nickel	3.11	0.974	"	"	"	HJD	"	"
Selenium	ND	0.253	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E05@18'
6/28/2024 11:15:00AM

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

Origins Laboratory, Inc.
Y406853-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	84.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E05@18'

6/28/2024 11:15:00AM

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

Origins Laboratory, Inc.
Y406853-08 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.9 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E05@18'

6/28/2024 11:15:00AM

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

Origins Laboratory, Inc.
Y406853-08 (Soil)

pH in Soil by 9045D

pH	5.08	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.495	0.261	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	20.8	8.99	"	"	"	HJD	"	"
Cadmium	ND	0.0899	"	"	"	HJD	"	"
Copper	ND	8.99	"	"	"	HJD	"	"
Lead	2.73	0.899	"	"	"	HJD	"	"
Nickel	3.82	0.899	"	"	"	HJD	"	"
Selenium	ND	0.234	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N02@8'

6/28/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y406853-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	81.6	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	86.9 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	19.0	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	91.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	155 %	70-130			"	"	"	S-GC

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N02@8'

6/28/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y406853-09 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.011	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	
2-Methylnaphthalene	0.034	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	93.6 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N02@8'

6/28/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y406853-09 (Soil)

pH in Soil by 9045D

pH	8.28	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.351	0.262	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	12.1	9.02	"	"	"	HJD	"	"
Cadmium	ND	0.0902	"	"	"	HJD	"	"
Copper	ND	9.02	"	"	"	HJD	"	"
Lead	1.72	0.902	"	"	"	HJD	"	"
Nickel	1.16	0.902	"	"	"	HJD	"	"
Selenium	ND	0.235	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N02@18'
6/28/2024 10:50:00AM

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

Origins Laboratory, Inc.
Y406853-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	207	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	88.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	74.8	5.00	"	25	"	ZZZ	"	06/29/2024	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	06/29/2024
Surrogate: Toluene-d8	88.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	285 %	70-130			"	"	" S-GC

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N02@18'
6/28/2024 10:50:00AM

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

Origins Laboratory, Inc.
Y406853-10 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.339	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	
2-Methylnaphthalene	0.909	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.041	0.020	"	"	"	Windo	"	"	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.073	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.003	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	94.3 %	60-130	"	"	"

pH in Soil by 9045D

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N02@18'

6/28/2024 10:50:00AM

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

Origins Laboratory, Inc. Y406853-10 (Soil)

pH in Soil by 9045D

pH	8.44	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.474	0.268	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	21.6	9.24	"	"	"	HJD	"	"
Cadmium	ND	0.0924	"	"	"	HJD	"	"
Copper	ND	9.24	"	"	"	HJD	"	"
Lead	3.38	0.924	"	"	"	HJD	"	"
Nickel	4.35	0.924	"	"	"	HJD	"	"
Selenium	ND	0.240	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N03@8'

6/28/2024 11:00:00AM

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

Origins Laboratory, Inc.
Y406853-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	96.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	2.27	0.200	"	"	"	HK	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.8 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N03@8'

6/28/2024 11:00:00AM

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

Origins Laboratory, Inc.
Y406853-11 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.007	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	
2-Methylnaphthalene	0.020	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	94.8 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N03@8'

6/28/2024 11:00:00AM

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

Origins Laboratory, Inc.
Y406853-11 (Soil)

pH in Soil by 9045D

pH	8.08	pH Units	1	B4G0124	EAL	07/01/2024	07/02/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.713	0.252	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	11.1	8.69	"	"	"	HJD	"	"
Cadmium	ND	0.0869	"	"	"	HJD	"	"
Copper	ND	8.69	"	"	"	HJD	"	"
Lead	2.62	0.869	"	"	"	HJD	"	"
Nickel	1.70	0.869	"	"	"	HJD	"	"
Selenium	ND	0.226	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N03@18'
6/28/2024 11:05:00AM

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

Origins Laboratory, Inc.
Y406853-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B4G0911	ACC	07/09/2024	07/10/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	172	25.0	mg/kg	1	B4F2839	ADM	06/28/2024	06/29/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F2838	HK	"	06/29/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	62.0	5.00	"	25	"	ZZZ	"	06/29/2024	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	06/29/2024
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	223 %	70-130			"	"	" S-GC

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N03@18'

6/28/2024 11:05:00AM

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

Origins Laboratory, Inc.
Y406853-12 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.449	0.002	mg/kg	1	B4F2843	Windo	06/28/2024	06/29/2024	
2-Methylnaphthalene	1.24	0.020	"	10	"	Windo	"	07/01/2024	
Acenaphthene	0.036	0.020	"	1	"	Windo	"	06/29/2024	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.067	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.004	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.3 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.9 %	60-130	"	"	"

pH in Soil by 9045D

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N03@18'

6/28/2024 11:05:00AM

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

Origins Laboratory, Inc.
Y406853-12 (Soil)

pH in Soil by 9045D

pH	8.15	pH Units	1	B4G0124	EAL	07/01/2024	07/01/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.590	0.271	mg/kg	10	B4F2845	HJD	06/28/2024	06/29/2024
Barium	21.6	9.35	"	"	"	HJD	"	"
Cadmium	ND	0.0935	"	"	"	HJD	"	"
Copper	ND	9.35	"	"	"	HJD	"	"
Lead	3.43	0.935	"	"	"	HJD	"	"
Nickel	6.80	0.935	"	"	"	HJD	"	"
Selenium	0.295	0.243	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2838 - EPA 5030 (soil)										
Blank (B4F2838-BLK1)					Prepared: 06/28/2024 Analyzed: 06/28/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2838 - EPA 5030 (soil)

LCS (B4F2838-BS1)

Prepared: 06/28/2024 Analyzed: 06/28/2024

1,2,4-Trimethylbenzene	0.0923	0.00200	mg/kg	0.100		92.3	70-130			
1,3,5-Trimethylbenzene	0.0907	0.00200	"	0.100		90.7	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.0926	0.00200	"	0.100		92.6	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.0907	0.00200	"	0.100		90.7	70-130			
o-Xylene	0.0924	0.00200	"	0.100		92.4	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2838 - EPA 5030 (soil)										
Matrix Spike (B4F2838-MS1)		Source: Y406840-01			Prepared: 06/28/2024 Analyzed: 06/28/2024					
1,2,4-Trimethylbenzene	0.0758	0.00200	mg/kg	0.100	ND	75.8	70-130			
1,3,5-Trimethylbenzene	0.0748	0.00200	"	0.100	ND	74.8	70-130			
Benzene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
Ethylbenzene	0.0745	0.00200	"	0.100	ND	74.5	70-130			
Naphthalene	0.0903	0.00380	"	0.100	ND	90.3	70-130			
Toluene	0.0756	0.00200	"	0.100	ND	75.6	70-130			
o-Xylene	0.0697	0.00200	"	0.100	ND	69.7	70-130			QM-07
m,p-Xylene	0.142	0.00400	"	0.200	ND	70.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.8	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2838 - EPA 5030 (soil)										
Matrix Spike Dup (B4F2838-MSD1)		Source: Y406840-01			Prepared: 06/28/2024 Analyzed: 06/28/2024					
1,2,4-Trimethylbenzene	0.0790	0.00200	mg/kg	0.100	ND	79.0	70-130	4.16	20	
1,3,5-Trimethylbenzene	0.0768	0.00200	"	0.100	ND	76.8	70-130	2.61	20	
Benzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	2.73	20	
Ethylbenzene	0.0766	0.00200	"	0.100	ND	76.6	70-130	2.89	20	
Naphthalene	0.0951	0.00380	"	0.100	ND	95.1	70-130	5.18	20	
Toluene	0.0769	0.00200	"	0.100	ND	76.9	70-130	1.60	20	
o-Xylene	0.0714	0.00200	"	0.100	ND	71.4	70-130	2.47	20	
m,p-Xylene	0.146	0.00400	"	0.200	ND	73.0	70-130	3.07	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2839 - EPA 3550B										
Blank (B4F2839-BLK1)					Prepared: 06/28/2024 Analyzed: 06/28/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.2	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2839 - EPA 3550B

LCS (B4F2839-BS1)

Prepared: 06/28/2024 Analyzed: 06/28/2024

Diesel (C10-C28)	993	50.0	mg/kg	1000		99.3	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2839 - EPA 3550B

Matrix Spike (B4F2839-MS1)		Source: Y406840-01			Prepared: 06/28/2024 Analyzed: 06/28/2024					
Diesel (C10-C28)	955	50.0	mg/kg	1000	ND	95.5	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4F2839 - EPA 3550B

Matrix Spike Dup (B4F2839-MSD1)		Source: Y406840-01			Prepared: 06/28/2024 Analyzed: 06/28/2024					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	4.67	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	3.12	35	
Surrogate: o-Terphenyl	53		"	49.8		107	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

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

Batch B4F2845 - EPA 3050B

Blank (B4F2845-BLK1)

Prepared: 06/28/2024 Analyzed: 06/29/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4F2845-BS1)

Prepared: 06/28/2024 Analyzed: 06/29/2024

Arsenic	5.36	0.290	mg/kg	5.00	107	80-120
Barium	539	10.0	"	500	108	80-120
Cadmium	5.41	0.100	"	5.00	108	80-120
Copper	52.8	10.0	"	50.0	106	80-120
Lead	5.06	1.00	"	5.00	101	80-120
Nickel	5.27	1.00	"	5.00	105	80-120
Selenium	5.06	0.260	"	5.00	101	80-120
Silver	5.53	0.100	"	5.00	111	80-120
Zinc	50.9	37.0	"	50.0	102	80-120

Matrix Spike (B4F2845-MS1)

Source: Y406853-02

Prepared: 06/28/2024 Analyzed: 06/29/2024

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4F2845 - EPA 3050B

Matrix Spike (B4F2845-MS1)		Source: Y406853-02			Prepared: 06/28/2024 Analyzed: 06/29/2024					
Arsenic	5.27	0.243	mg/kg	4.20	0.732	108	75-125			
Barium	496	8.39	"	420	27.1	112	75-125			
Cadmium	4.64	0.0839	"	4.20	0.0393	110	75-125			
Copper	51.0	8.39	"	42.0	5.84	108	75-125			
Lead	8.12	0.839	"	4.20	3.28	115	75-125			
Nickel	10.2	0.839	"	4.20	5.03	123	75-125			
Selenium	4.25	0.218	"	4.20	0.0543	99.9	75-125			
Silver	4.65	0.0839	"	4.20	0.0168	110	75-125			
Zinc	60.7	31.0	"	42.0	17.2	104	75-125			
Matrix Spike Dup (B4F2845-MSD1)		Source: Y406853-02			Prepared: 06/28/2024 Analyzed: 06/29/2024					
Arsenic	5.42	0.254	mg/kg	4.38	0.732	107	75-125	2.83	20	
Barium	497	8.77	"	438	27.1	107	75-125	0.115	20	
Cadmium	4.82	0.0877	"	4.38	0.0393	109	75-125	3.94	20	
Copper	50.5	8.77	"	43.8	5.84	102	75-125	1.12	20	
Lead	8.51	0.877	"	4.38	3.28	119	75-125	4.63	20	
Nickel	9.43	0.877	"	4.38	5.03	100	75-125	7.91	20	
Selenium	4.30	0.228	"	4.38	0.0543	96.9	75-125	1.32	20	
Silver	4.84	0.0877	"	4.38	0.0168	110	75-125	4.03	20	
Zinc	59.2	32.4	"	43.8	17.2	95.7	75-125	2.51	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2843 - EPA 3580

Blank (B4F2843-BLK1)

Prepared: 06/28/2024 Analyzed: 06/29/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	180		"	200		89.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.9	60-130			

LCS (B4F2843-BS1)

Prepared: 06/28/2024 Analyzed: 06/29/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.5	70-130
2-Methylnaphthalene	0.197	0.002	"	0.200		98.3	70-130
Acenaphthene	0.205	0.020	"	0.200		102	70-130
Anthracene	0.180	0.020	"	0.200		89.9	70-130

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2843 - EPA 3580

LCS (B4F2843-BS1)

Prepared: 06/28/2024 Analyzed: 06/29/2024

Benzo (a) anthracene	0.188	0.005	mg/kg	0.200		93.9	70-130			
Benzo (a) pyrene	0.196	0.020	"	0.200		97.8	70-130			
Benzo (b) fluoranthene	0.171	0.020	"	0.200		85.4	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		98.1	70-130			
Benzo (k) fluoranthene	0.201	0.020	"	0.200		101	70-130			
Chrysene	0.198	0.020	"	0.200		98.8	70-130			
Dibenz (a,h) anthracene	0.156	0.020	"	0.200		77.9	70-130			
Fluoranthene	0.194	0.020	"	0.200		97.2	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		85.2	70-130			
Naphthalene	0.207	0.002	"	0.200		103	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.4	70-130			
Pyrene	0.185	0.020	"	0.200		92.4	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		89.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike (B4F2843-MS1)

Source: Y406851-01

Prepared: 06/28/2024 Analyzed: 06/29/2024

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	0.010	99.8	70-130			
2-Methylnaphthalene	0.214	0.002	"	0.200	0.013	100	70-130			
Acenaphthene	0.220	0.020	"	0.200	0.008	106	70-130			
Anthracene	0.191	0.020	"	0.200	ND	95.3	70-130			
Benzo (a) anthracene	0.195	0.005	"	0.200	0.011	91.8	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	0.017	94.4	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.014	94.7	70-130			
Benzo (g,h,i) perylene	0.210	0.020	"	0.200	0.014	98.1	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2843 - EPA 3580

Matrix Spike (B4F2843-MS1)		Source: Y406851-01			Prepared: 06/28/2024 Analyzed: 06/29/2024					
Benzo (k) fluoranthene	0.218	0.020	mg/kg	0.200	0.005	106	70-130			
Chrysene	0.246	0.020	"	0.200	0.030	108	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	0.006	95.0	70-130			
Fluoranthene	0.203	0.020	"	0.200	0.010	96.8	70-130			
Fluorene	0.224	0.020	"	0.200	0.004	110	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	0.009	92.4	70-130			
Naphthalene	0.210	0.002	"	0.200	0.003	104	70-130			
Phenanthrene	0.225	0.020	"	0.200	0.029	98.0	70-130			
Pyrene	0.193	0.020	"	0.200	0.018	87.5	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4F2843-MSD1)		Source: Y406851-01			Prepared: 06/28/2024 Analyzed: 06/29/2024					
1-Methylnaphthalene	0.221	0.002	mg/kg	0.200	0.010	105	70-130	4.98	20	
2-Methylnaphthalene	0.223	0.002	"	0.200	0.013	105	70-130	4.21	20	
Acenaphthene	0.228	0.020	"	0.200	0.008	110	70-130	3.57	20	
Anthracene	0.203	0.020	"	0.200	ND	102	70-130	6.58	20	
Benzo (a) anthracene	0.213	0.005	"	0.200	0.011	101	70-130	8.85	20	
Benzo (a) pyrene	0.212	0.020	"	0.200	0.017	97.7	70-130	3.13	20	
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.014	92.3	70-130	2.42	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	0.014	103	70-130	4.18	20	
Benzo (k) fluoranthene	0.236	0.020	"	0.200	0.005	116	70-130	8.16	20	
Chrysene	0.256	0.020	"	0.200	0.030	113	70-130	3.87	20	
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	0.006	103	70-130	7.52	20	
Fluoranthene	0.215	0.020	"	0.200	0.010	103	70-130	5.65	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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4F2843 - EPA 3580

Matrix Spike Dup (B4F2843-MSD1)		Source: Y406851-01			Prepared: 06/28/2024 Analyzed: 06/29/2024					
Fluorene	0.234	0.020	mg/kg	0.200	0.004	115	70-130	4.68	20	
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	0.009	95.7	70-130	3.41	20	
Naphthalene	0.220	0.002	"	0.200	0.003	109	70-130	4.49	20	
Phenanthrene	0.233	0.020	"	0.200	0.029	102	70-130	3.47	20	
Pyrene	0.196	0.020	"	0.200	0.018	88.8	70-130	1.43	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	180		"	200		90.3	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G0911 - DTPA Sorbitol Preparation										
Blank (B4G0911-BLK1)					Prepared: 07/09/2024 Analyzed: 07/10/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G0911-DUP1)					Source: Y406523-01 Prepared: 07/09/2024 Analyzed: 07/10/2024					
Boron	2.74	0.101	mg/L		2.82			3.02	50	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control

Origins Laboratory, Inc.

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

Batch B4G0124 - Saturated Paste pH/EC

Duplicate (B4G0124-DUP1)			Source: Y406842-02		Prepared: 07/01/2024 Analyzed: 07/01/2024					
pH	8.31		pH Units		8.21			1.21	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



July 26, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility**

Project Number - 09A1417392

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. July 17, 2024. This project is associated with Origins project number Y407436-01.

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

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

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

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

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

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



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-S06@8'	Y407436-01	Soil	July 17, 2024 12:20	07/17/2024 16:12
TB01-S06@18'	Y407436-02	Soil	July 17, 2024 12:25	07/17/2024 16:12
TB01-S07@8'	Y407436-03	Soil	July 17, 2024 12:30	07/17/2024 16:12
TB01-S07@18'	Y407436-04	Soil	July 17, 2024 12:35	07/17/2024 16:12
TB01-W03@8'	Y407436-05	Soil	July 17, 2024 12:40	07/17/2024 16:12
TB01-W03@18'	Y407436-06	Soil	July 17, 2024 12:45	07/17/2024 16:12
TB01-W04@8'	Y407436-07	Soil	July 17, 2024 12:50	07/17/2024 16:12
TB01-W04@18'	Y407436-08	Soil	July 17, 2024 12:55	07/17/2024 16:12
TB01-B10@20'	Y407436-09	Soil	July 17, 2024 11:55	07/17/2024 16:12
TB01-B11@20'	Y407436-10	Soil	July 17, 2024 13:00	07/17/2024 16:12

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS WORK ORDER # **4417392**

Page 1 of 1

ORIGINS **LABORATORY** **INC**

Client: **ENSULUM**

Address: **11049 W 44th Ave Ste 100**

Telephone Number: **Wheat Ridge CO 80033**

Email Address: **KMG-TEUM**

Project Manager: **Jeremy Espinoza**

Key: **W=Water**

Project Name: **PSC 15-10 FSV, 24A&4 O SA Facility**

Project Number: **09A1417392**

Collected By: **JL**

Invoice/Billing Info: **Impacted 100%**

Matrix: **UNP**

Preservative: **UNP**

Analysis: **TOH, Dec, 2015, BTEX, PAHs, PCBs, dioxin, furan, etc.**

Comments: **pH, Barium & Cu added to all samples per email from Jeremy on 7/18/24**

Turnaround Time: ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard: ☐ Standard ☒ Yes ☐ No

Temp Received: **5.7** Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	TB01-S06e81	7/17/24	1220	3	S	UNP	TOH, Dec, 2015, BTEX, PAHs, PCBs, dioxin, furan, etc.	pH, Barium & Cu added to all samples
2	TB01-S06e81		1225					
3	TB01-S07e81		1230					
4	TB01-S07e81		1235					
5	TB01-W03e81		1240					
6	TB01-W03e81		1245					
7	TB01-W04e81		1250					
8	TB01-W04e81		1255					
9	TB01-B10e201		1355					
10	TB01-B11e201		1300					

Relinquished By: **[Signature]** Date: **7/17/24** Time: **1612**

Received By: **[Signature]** Date: **7/17/24** Time: **1612**

Relinquished By: **[Signature]** Date: **7/17/24** Time: **1612**

Received By: **[Signature]** Date: **7/17/24** Time: **1612**

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4407436

Client: ENSOLUM

Client Project ID: PSC 15-10

Checklist Completed by: EHO

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

Date/time completed: 7/17/12

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1157 °C / °C / °C (Describe)

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) EHO

Date/Time Reviewed 7/17/12

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@8'

7/17/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407436-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.137	0.100	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	-------	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	86.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@8'

7/17/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407436-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	118 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@8'

7/17/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407436-01 (Soil)

pH in Soil by 9045D

pH	8.33	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.99	0.253	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	67.8	8.71	"	"	"	HJD	"	"
Cadmium	ND	0.0871	"	"	"	HJD	"	"
Copper	ND	8.71	"	"	"	HJD	"	"
Lead	8.35	0.871	"	"	"	HJD	"	"
Nickel	10.3	0.871	"	"	"	HJD	"	"
Selenium	ND	0.227	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@18'

7/17/2024 12:25:00PM

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

Origins Laboratory, Inc.
Y407436-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	162	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	93.2 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	1.83	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@18'

7/17/2024 12:25:00PM

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

Origins Laboratory, Inc.
Y407436-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	94.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	88.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@18'

7/17/2024 12:25:00PM

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

Origins Laboratory, Inc.
Y407436-02 (Soil)

pH in Soil by 9045D

pH	3.79	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.903	0.284	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	13.0	9.78	"	"	"	HJD	"	"
Cadmium	ND	0.0978	"	"	"	HJD	"	"
Copper	ND	9.78	"	"	"	HJD	"	"
Lead	3.01	0.978	"	"	"	HJD	"	"
Nickel	1.88	0.978	"	"	"	HJD	"	"
Selenium	ND	0.254	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@8'

7/17/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y407436-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	74.2	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	92.0 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@8'

7/17/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y407436-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@8'

7/17/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y407436-03 (Soil)

pH in Soil by 9045D

pH	8.03	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.34	0.247	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	32.3	8.53	"	"	"	HJD	"	"
Cadmium	ND	0.0853	"	"	"	HJD	"	"
Copper	ND	8.53	"	"	"	HJD	"	"
Lead	4.99	0.853	"	"	"	HJD	"	"
Nickel	5.24	0.853	"	"	"	HJD	"	"
Selenium	ND	0.222	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@18'
7/17/2024 12:35:00PM

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

Origins Laboratory, Inc.
Y407436-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	89.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	126 %	70-130			"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@18'

7/17/2024 12:35:00PM

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

Origins Laboratory, Inc.
Y407436-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	91.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	83.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@18'

7/17/2024 12:35:00PM

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

Origins Laboratory, Inc.
Y407436-04 (Soil)

pH in Soil by 9045D

pH	4.68	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.16	0.277	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	26.7	9.56	"	"	"	HJD	"	"
Cadmium	ND	0.0956	"	"	"	HJD	"	"
Copper	ND	9.56	"	"	"	HJD	"	"
Lead	4.36	0.956	"	"	"	HJD	"	"
Nickel	6.39	0.956	"	"	"	HJD	"	"
Selenium	0.857	0.249	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@8'

7/17/2024 12:40:00PM

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

Origins Laboratory, Inc.
Y407436-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	32.1	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	82.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	136 %	70-130			"	"	"	S-GC

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@8'

7/17/2024 12:40:00PM

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

Origins Laboratory, Inc.
Y407436-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	91.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	87.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	132 %	60-130	"	"	" S-04
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@8'

7/17/2024 12:40:00PM

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

Origins Laboratory, Inc.
Y407436-05 (Soil)

pH in Soil by 9045D

pH	8.26	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.21	0.266	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	32.2	9.17	"	"	"	HJD	"	"
Cadmium	ND	0.0917	"	"	"	HJD	"	"
Copper	ND	9.17	"	"	"	HJD	"	"
Lead	4.11	0.917	"	"	"	HJD	"	"
Nickel	4.29	0.917	"	"	"	HJD	"	"
Selenium	ND	0.238	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@18'

7/17/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y407436-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	88.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@18'

7/17/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y407436-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	95.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	119 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.1 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@18'

7/17/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y407436-06 (Soil)

pH in Soil by 9045D

pH	4.90	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.49	0.269	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	29.0	9.27	"	"	"	HJD	"	"
Cadmium	ND	0.0927	"	"	"	HJD	"	"
Copper	ND	9.27	"	"	"	HJD	"	"
Lead	4.05	0.927	"	"	"	HJD	"	"
Nickel	6.32	0.927	"	"	"	HJD	"	"
Selenium	ND	0.241	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@8'

7/17/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y407436-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	89.0 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@8'

7/17/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y407436-07 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130
Surrogate: Anthracene-d10	86.8 %	60-130
Surrogate: Pyrene-d10	106 %	60-130
Surrogate: Benzo (a) pyrene-d12	108 %	60-130

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@8'

7/17/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y407436-07 (Soil)

pH in Soil by 9045D

pH	8.29	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.90	0.261	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	45.8	9.02	"	"	"	HJD	"	"
Cadmium	ND	0.0902	"	"	"	HJD	"	"
Copper	ND	9.02	"	"	"	HJD	"	"
Lead	7.23	0.902	"	"	"	HJD	"	"
Nickel	5.33	0.902	"	"	"	HJD	"	"
Selenium	ND	0.234	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@18'

7/17/2024 12:55:00PM

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

Origins Laboratory, Inc.
Y407436-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	98.1 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	85.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@18'

7/17/2024 12:55:00PM

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

Origins Laboratory, Inc.
Y407436-08 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	88.3 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@18'

7/17/2024 12:55:00PM

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

Origins Laboratory, Inc.
Y407436-08 (Soil)

pH in Soil by 9045D

pH	8.11	pH Units	1	B4G2223	EAL	07/22/2024	07/22/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	4.44	0.264	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	21.0	9.10	"	"	"	HJD	"	"
Cadmium	ND	0.0910	"	"	"	HJD	"	"
Copper	ND	9.10	"	"	"	HJD	"	"
Lead	13.5	0.910	"	"	"	HJD	"	"
Nickel	4.41	0.910	"	"	"	HJD	"	"
Selenium	ND	0.236	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B10@20'
7/17/2024 11:55:00AM

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

Origins Laboratory, Inc.
Y407436-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	141	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/18/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	96.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.00408	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	38.1	5.00	"	25	"	HK	"	07/18/2024	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	07/18/2024
Surrogate: Toluene-d8	133 %	70-130			"	"	" S-GC
Surrogate: 4-Bromofluorobenzene	85.5 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B10@20'

7/17/2024 11:55:00AM

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

Origins Laboratory, Inc. Y407436-09 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.431	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	
2-Methylnaphthalene	1.32	0.020	"	10	"	agile	"	07/18/2024	
Acenaphthene	0.104	0.020	"	1	"	agile	"	07/17/2024	
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.140	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.004	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	99.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"

pH in Soil by 9045D

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B10@20'

7/17/2024 11:55:00AM

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

Origins Laboratory, Inc.
Y407436-09 (Soil)

pH in Soil by 9045D

pH	8.34	pH Units	1	B4G2224	EAL	07/22/2024	07/23/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.29	0.289	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	39.8	9.97	"	"	"	HJD	"	"
Cadmium	ND	0.0997	"	"	"	HJD	"	"
Copper	ND	9.97	"	"	"	HJD	"	"
Lead	3.74	0.997	"	"	"	HJD	"	"
Nickel	4.45	0.997	"	"	"	HJD	"	"
Selenium	0.519	0.259	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B11@20'
7/17/2024 1:00:00PM

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

Origins Laboratory, Inc.
Y407436-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B4G1914	ACC	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/18/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	80.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B11@20'

7/17/2024 1:00:00PM

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

Origins Laboratory, Inc.
Y407436-10 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	96.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	88.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	93.1 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B11@20'

7/17/2024 1:00:00PM

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

Origins Laboratory, Inc. Y407436-10 (Soil)

pH in Soil by 9045D

pH	8.46	pH Units	1	B4G2224	EAL	07/22/2024	07/23/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.775	0.252	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	20.7	8.69	"	"	"	HJD	"	"
Cadmium	ND	0.0869	"	"	"	HJD	"	"
Copper	ND	8.69	"	"	"	HJD	"	"
Lead	2.48	0.869	"	"	"	HJD	"	"
Nickel	3.71	0.869	"	"	"	HJD	"	"
Selenium	0.361	0.226	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B										
Blank (B4G1735-BLK1)					Prepared: 07/17/2024 Analyzed: 07/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.0	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B

LCS (B4G1735-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

Diesel (C10-C28)	992	50.0	mg/kg	1000		99.2	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	61		"	49.8		123	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B

Matrix Spike (B4G1735-MS1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B

Matrix Spike Dup (B4G1735-MSD1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	2.13	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	2.53	35	
Surrogate: o-Terphenyl	54		"	49.8		108	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)										
Blank (B4G1748-BLK1)					Prepared: 07/17/2024 Analyzed: 07/17/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)										
LCS (B4G1748-BS1)					Prepared: 07/17/2024 Analyzed: 07/17/2024					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0984	0.00200	"	0.100		98.4	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.0955	0.00200	"	0.100		95.5	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)

Matrix Spike (B4G1748-MS1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	ND	97.5	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Benzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130			
Toluene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
m,p-Xylene	0.184	0.00400	"	0.200	ND	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)										
Matrix Spike Dup (B4G1748-MSD1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100	ND	91.9	70-130	5.98	20	
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	3.98	20	
Benzene	0.0880	0.00200	"	0.100	ND	88.0	70-130	8.57	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	3.17	20	
Naphthalene	0.0988	0.00380	"	0.100	ND	98.8	70-130	7.56	20	
Toluene	0.0868	0.00200	"	0.100	ND	86.8	70-130	5.27	20	
o-Xylene	0.0874	0.00200	"	0.100	ND	87.4	70-130	4.54	20	
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.3	70-130	4.37	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

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

Batch B4G1753 - EPA 3050B

Blank (B4G1753-BLK1)

Prepared: 07/17/2024 Analyzed: 07/18/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"

LCS (B4G1753-BS1)

Prepared: 07/17/2024 Analyzed: 07/18/2024

Arsenic	5.74	0.290	mg/kg	5.00	115	80-120
Barium	541	10.0	"	500	108	80-120
Cadmium	5.69	0.100	"	5.00	114	80-120
Copper	59.6	10.0	"	50.0	119	80-120
Lead	5.52	1.00	"	5.00	110	80-120
Nickel	5.97	1.00	"	5.00	119	80-120
Selenium	5.66	0.260	"	5.00	113	80-120
Silver	5.81	0.100	"	5.00	116	80-120

Matrix Spike (B4G1753-MS1)

Source: Y407436-01

Prepared: 07/17/2024 Analyzed: 07/18/2024

Arsenic	6.41	0.267	mg/kg	4.60	1.99	96.3	75-125
Barium	528	9.19	"	460	67.8	100	75-125

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4G1753 - EPA 3050B

Matrix Spike (B4G1753-MS1)		Source: Y407436-01			Prepared: 07/17/2024 Analyzed: 07/18/2024					
Cadmium	5.03	0.0919	mg/kg	4.60	0.0540	108	75-125			
Copper	56.6	9.19	"	46.0	7.41	107	75-125			
Lead	10.3	0.919	"	4.60	8.35	41.6	75-125			QM-07
Nickel	10.5	0.919	"	4.60	10.3	4.47	75-125			QM-07
Selenium	5.00	0.239	"	4.60	0.0749	107	75-125			
Silver	5.06	0.0919	"	4.60	0.0392	109	75-125			
Matrix Spike Dup (B4G1753-MSD1)		Source: Y407436-01			Prepared: 07/17/2024 Analyzed: 07/18/2024					
Arsenic	6.42	0.247	mg/kg	4.27	1.99	104	75-125	0.0563	20	
Barium	538	8.53	"	427	67.8	110	75-125	1.78	20	
Cadmium	5.09	0.0853	"	4.27	0.0540	118	75-125	1.25	20	
Copper	58.2	8.53	"	42.7	7.41	119	75-125	2.81	20	
Lead	10.6	0.853	"	4.27	8.35	52.4	75-125	3.10	20	QM-07
Nickel	10.8	0.853	"	4.27	10.3	11.8	75-125	2.79	20	QM-07
Selenium	5.13	0.222	"	4.27	0.0749	118	75-125	2.42	20	
Silver	5.10	0.0853	"	4.27	0.0392	119	75-125	0.858	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

Blank (B4G1744-BLK1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		91.9	60-130			
Surrogate: Pyrene-d10	230		"	200		113	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		109	60-130			

LCS (B4G1744-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.7	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200		91.3	70-130
Acenaphthene	0.201	0.020	"	0.200		101	70-130
Anthracene	0.176	0.020	"	0.200		87.8	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

LCS (B4G1744-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

Benzo (a) anthracene	0.182	0.005	mg/kg	0.200		90.9	70-130
Benzo (a) pyrene	0.192	0.020	"	0.200		96.1	70-130
Benzo (b) fluoranthene	0.220	0.020	"	0.200		110	70-130
Benzo (g,h,i) perylene	0.235	0.020	"	0.200		117	70-130
Benzo (k) fluoranthene	0.211	0.020	"	0.200		105	70-130
Chrysene	0.203	0.020	"	0.200		101	70-130
Dibenz (a,h) anthracene	0.233	0.020	"	0.200		116	70-130
Fluoranthene	0.194	0.020	"	0.200		97.1	70-130
Fluorene	0.208	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200		109	70-130
Naphthalene	0.205	0.002	"	0.200		102	70-130
Phenanthrene	0.209	0.020	"	0.200		105	70-130
Pyrene	0.211	0.020	"	0.200		105	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		94.0	60-130
Surrogate: Anthracene-d10	170		"	200		87.1	60-130
Surrogate: Pyrene-d10	210		"	200		107	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

Matrix Spike (B4G1744-MS1)

Source: Y407138-01

Prepared: 07/17/2024 Analyzed: 07/17/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.009	92.6	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200	0.002	90.4	70-130
Acenaphthene	0.199	0.020	"	0.200	0.002	98.8	70-130
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130
Benzo (a) anthracene	0.161	0.005	"	0.200	0.004	78.6	70-130
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.7	70-130
Benzo (b) fluoranthene	0.231	0.020	"	0.200	ND	115	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.0008	101	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

Matrix Spike (B4G1744-MS1)		Source: Y407138-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Benzo (k) fluoranthene	0.201	0.020	mg/kg	0.200	ND	100	70-130			
Chrysene	0.191	0.020	"	0.200	0.0006	95.0	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	ND	117	70-130			
Fluoranthene	0.151	0.020	"	0.200	ND	75.3	70-130			
Fluorene	0.208	0.020	"	0.200	0.004	102	70-130			
Indeno (1,2,3-cd) pyrene	0.253	0.020	"	0.200	ND	126	70-130			
Naphthalene	0.186	0.002	"	0.200	ND	93.0	70-130			
Phenanthrene	0.209	0.020	"	0.200	0.004	102	70-130			
Pyrene	0.165	0.020	"	0.200	0.0008	81.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		90.0	60-130			
Surrogate: Pyrene-d10	170		"	200		87.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4G1744-MSD1)		Source: Y407138-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	0.009	101	70-130	8.26	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	0.002	96.8	70-130	6.69	20	
Acenaphthene	0.217	0.020	"	0.200	0.002	107	70-130	8.30	20	
Anthracene	0.185	0.020	"	0.200	ND	92.6	70-130	3.71	20	
Benzo (a) anthracene	0.203	0.005	"	0.200	0.004	99.5	70-130	23.0	20	QR-02
Benzo (a) pyrene	0.196	0.020	"	0.200	ND	98.0	70-130	8.85	20	
Benzo (b) fluoranthene	0.230	0.020	"	0.200	ND	115	70-130	0.367	20	
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	0.0008	88.8	70-130	12.6	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	0.422	20	
Chrysene	0.189	0.020	"	0.200	0.0006	93.9	70-130	1.12	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	108	70-130	7.28	20	
Fluoranthene	0.167	0.020	"	0.200	ND	83.4	70-130	10.2	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

Matrix Spike Dup (B4G1744-MSD1)		Source: Y407138-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Fluorene	0.213	0.020	mg/kg	0.200	0.004	105	70-130	2.24	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	ND	115	70-130	9.78	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	9.07	20	
Phenanthrene	0.229	0.020	"	0.200	0.004	112	70-130	9.25	20	
Pyrene	0.200	0.020	"	0.200	0.0008	99.7	70-130	19.5	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	180		"	200		88.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1914 - DTPA Sorbitol Preparation										
Blank (B4G1914-BLK1)					Prepared: 07/19/2024 Analyzed: 07/22/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G1914-DUP1)					Source: Y407436-01 Prepared: 07/19/2024 Analyzed: 07/22/2024					
Boron	0.143	0.100	mg/L		0.137			4.46	50	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G2223 - Saturated Paste pH/EC										
Duplicate (B4G2223-DUP1)		Source: Y407241-01			Prepared: 07/22/2024 Analyzed: 07/22/2024					
pH	8.24		pH Units		8.33			1.09	25	
Batch B4G2224 - Saturated Paste pH/EC										
Duplicate (B4G2224-DUP1)		Source: Y407436-09			Prepared: 07/22/2024 Analyzed: 07/22/2024					
pH	8.44		pH Units		8.34			1.19	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

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

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



July 18, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility**

Project Number - 09A1417392

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. July 17, 2024. This project is associated with Origins project number Y407436-01.

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

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

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

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

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

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



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-S06@8'	Y407436-01	Soil	July 17, 2024 12:20	07/17/2024 16:12
TB01-S06@18'	Y407436-02	Soil	July 17, 2024 12:25	07/17/2024 16:12
TB01-S07@8'	Y407436-03	Soil	July 17, 2024 12:30	07/17/2024 16:12
TB01-S07@18'	Y407436-04	Soil	July 17, 2024 12:35	07/17/2024 16:12
TB01-W03@8'	Y407436-05	Soil	July 17, 2024 12:40	07/17/2024 16:12
TB01-W03@18'	Y407436-06	Soil	July 17, 2024 12:45	07/17/2024 16:12
TB01-W04@8'	Y407436-07	Soil	July 17, 2024 12:50	07/17/2024 16:12
TB01-W04@18'	Y407436-08	Soil	July 17, 2024 12:55	07/17/2024 16:12
TB01-B10@20'	Y407436-09	Soil	July 17, 2024 11:55	07/17/2024 16:12
TB01-B11@20'	Y407436-10	Soil	July 17, 2024 13:00	07/17/2024 16:12

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS

LABORATORY INC

Client: ENSOLUM

Project Manager: JEREMY ESPINOZA

Project Name: PSC 15-10 FSV, 24A&4 O SA Facility

Key:

Address: 11049 W 44th Ave Ste 103

W=Water

Telephone Number: Wheat Ridge, CO 80033

Project Number: 09A1417392

GW=Groundwater

Collected By: JTE

SW=Surface Water

Email Address: KMG-TECH

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Invoice/Billing Info: Imported 100%

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis										Comments
						BTEX	TMBs	TPH DRO	PAHS	As, Cd, Pb, Cu, Ni						
1	7B01-S06e81	7/17/24	1220	3	UNP	X	X	X	X	X						
2	7B01-S06e81		1225													
3	7B01-S07e81		1230													
4	7B01-S07e81		1235													
5	7B01-W03e81		1240													
6	7B01-W03e81		1245													
7	7B01-W04e81		1250													
8	7B01-W04e81		1255													
9	7B01-B10e201		1155													
10	7B01-B11e201		1300													

Relinquished By: [Signature] Date: 7/17/24 Time: 1612 Received By: [Signature] Date: 7/17/24 Time: 1612

Temp Received - 5.7 Received On Ice? ☒ Yes ☐ No

Standard ☐ 48 Hr ☐ 72 Hr

Turnaround Time ☒ SAME DAY ☐ 24 Hr

Origins Laboratory, Inc.

Jefe Pellegrini

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407436

Client: Ensolum

Client Project ID: PSC 15-10

Checklist Completed by: EH

Shipped Via: HD

Date/time completed: 7/17/14

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

Airbill #: N/A

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

Cooler Number/Temperature: 1157 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) EH

Date/Time Reviewed 7/17/14

Origins Laboratory, Inc.

Jen Pellegrini

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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@8'

7/17/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407436-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 86.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@8'

7/17/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407436-01 (Soil)

PAH by EPA 8270E

Acenaphthene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	118 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	95.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.99	0.253	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@8'

7/17/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407436-01 (Soil)

Table 915 metals by EPA 6020B

Barium	67.8	8.71	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Cadmium	ND	0.0871	"	"	"	HJD	"	"	U
Lead	8.35	0.871	"	"	"	HJD	"	"	
Nickel	10.3	0.871	"	"	"	HJD	"	"	
Selenium	ND	0.227	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@18'

7/17/2024 12:25:00PM

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

Origins Laboratory, Inc. Y407436-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	162	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 93.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	1.83	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
 Surrogate: Toluene-d8 107 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.7 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@18'

7/17/2024 12:25:00PM

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

Origins Laboratory, Inc.
Y407436-02 (Soil)

PAH by EPA 8270E

Anthracene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	94.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	88.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	0.903	0.284	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	13.0	9.78	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S06@18'

7/17/2024 12:25:00PM

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

Origins Laboratory, Inc.
Y407436-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND	0.0978	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	U
Lead	3.01	0.978	"	"	"	HJD	"	"	
Nickel	1.88	0.978	"	"	"	HJD	"	"	
Selenium	ND	0.254	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@8'

7/17/2024 12:30:00PM

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

Origins Laboratory, Inc. Y407436-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	74.2	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 92.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 99.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@8'

7/17/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y407436-03 (Soil)

PAH by EPA 8270E

Anthracene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.34	0.247	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	32.3	8.53	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@8'

7/17/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y407436-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND	0.0853	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	U
Lead	4.99	0.853	"	"	"	HJD	"	"	
Nickel	5.24	0.853	"	"	"	HJD	"	"	
Selenium	ND	0.222	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@18'
7/17/2024 12:35:00PM

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

Origins Laboratory, Inc.
Y407436-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 89.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 126 % 70-130 " " "
Surrogate: Toluene-d8 108 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 86.6 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@18'
7/17/2024 12:35:00PM

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

Origins Laboratory, Inc.
Y407436-04 (Soil)

PAH by EPA 8270E

Acenaphthene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	91.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	83.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.16	0.277	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S07@18'

7/17/2024 12:35:00PM

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

Origins Laboratory, Inc.

Y407436-04 (Soil)

Table 915 metals by EPA 6020B

Barium	26.7	9.56	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Cadmium	ND	0.0956	"	"	"	HJD	"	"	U
Lead	4.36	0.956	"	"	"	HJD	"	"	
Nickel	6.39	0.956	"	"	"	HJD	"	"	
Selenium	0.857	0.249	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@8'

7/17/2024 12:40:00PM

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

Origins Laboratory, Inc.

Y407436-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	32.1	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 82.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "

Surrogate: Toluene-d8 99.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 136 % 70-130 " " S-GC

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@8'

7/17/2024 12:40:00PM

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

Origins Laboratory, Inc.
Y407436-05 (Soil)

PAH by EPA 8270E

Anthracene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	91.0 %	60-130			"	"	"	
Surrogate: Anthracene-d10	87.8 %	60-130			"	"	"	
Surrogate: Pyrene-d10	132 %	60-130			"	"	"	S-04
Surrogate: Benzo (a) pyrene-d12	105 %	60-130			"	"	"	

Table 915 metals by EPA 6020B

Arsenic	1.21	0.266	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Barium	32.2	9.17	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@8'

7/17/2024 12:40:00PM

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

Origins Laboratory, Inc.
Y407436-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND	0.0917	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	U
Lead	4.11	0.917	"	"	"	HJD	"	"	
Nickel	4.29	0.917	"	"	"	HJD	"	"	
Selenium	ND	0.238	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@18'
7/17/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y407436-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 88.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
Surrogate: Toluene-d8 106 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@18'

7/17/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y407436-06 (Soil)

PAH by EPA 8270E

Acenaphthene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	95.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	119 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.1 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.49	0.269	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W03@18'

7/17/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y407436-06 (Soil)

Table 915 metals by EPA 6020B

Barium	29.0	9.27	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Cadmium	ND	0.0927	"	"	"	HJD	"	"	U
Lead	4.05	0.927	"	"	"	HJD	"	"	
Nickel	6.32	0.927	"	"	"	HJD	"	"	
Selenium	ND	0.241	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@8'

7/17/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y407436-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 89.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/17/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 107 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 121 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@8'

7/17/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y407436-07 (Soil)

PAH by EPA 8270E

Acenaphthene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.90	0.261	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@8'

7/17/2024 12:50:00PM

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

Origins Laboratory, Inc.
Y407436-07 (Soil)

Table 915 metals by EPA 6020B

Barium	45.8	9.02	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Cadmium	ND	0.0902	"	"	"	HJD	"	"	U
Lead	7.23	0.902	"	"	"	HJD	"	"	
Nickel	5.33	0.902	"	"	"	HJD	"	"	
Selenium	ND	0.234	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@18'
7/17/2024 12:55:00PM

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

Origins Laboratory, Inc.
Y407436-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/17/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 98.1 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 123 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 85.4 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@18'

7/17/2024 12:55:00PM

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

Origins Laboratory, Inc.
Y407436-08 (Soil)

PAH by EPA 8270E

Acenaphthene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	88.3 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	4.44	0.264	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
---------	------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W04@18'

7/17/2024 12:55:00PM

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

Origins Laboratory, Inc.
Y407436-08 (Soil)

Table 915 metals by EPA 6020B

Barium	21.0	9.10	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Cadmium	ND	0.0910	"	"	"	HJD	"	"	U
Lead	13.5	0.910	"	"	"	HJD	"	"	
Nickel	4.41	0.910	"	"	"	HJD	"	"	
Selenium	ND	0.236	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B10@20'

7/17/2024 11:55:00AM

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

Origins Laboratory, Inc.

Y407436-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	141	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/18/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 96.7 % 50-150 " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.00408	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	38.1	5.00	"	25	"	HK	"	07/18/2024	

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " 07/18/2024
 Surrogate: Toluene-d8 133 % 70-130 " " S-GC
 Surrogate: 4-Bromofluorobenzene 85.5 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	0.431	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	
2-Methylnaphthalene	1.32	0.020	"	10	"	agile	"	07/18/2024	
Acenaphthene	0.104	0.020	"	1	"	agile	"	07/17/2024	

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B10@20'
7/17/2024 11:55:00AM

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

Origins Laboratory, Inc.
Y407436-09 (Soil)

PAH by EPA 8270E

Anthracene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.140	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	0.004	0.002	"	"	"	agile	"	"	
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	99.4 %	60-130			"	"	"
Surrogate: Anthracene-d10	90.7 %	60-130			"	"	"
Surrogate: Pyrene-d10	109 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130			"	"	"

Table 915 metals by EPA 6020B

Arsenic	1.29	0.289	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Barium	39.8	9.97	"	"	"	HJD	"	"	
Cadmium	ND	0.0997	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B10@20'

7/17/2024 11:55:00AM

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

Origins Laboratory, Inc.
Y407436-09 (Soil)

Table 915 metals by EPA 6020B

Lead	3.74	0.997	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
Nickel	4.45	0.997	"	"	"	HJD	"	"
Selenium	0.519	0.259	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B11@20'
7/17/2024 1:00:00PM

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

Origins Laboratory, Inc. Y407436-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1735	ADM	07/17/2024	07/18/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 80.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1748	ZZZ	07/17/2024	07/18/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.9 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B11@20'

7/17/2024 1:00:00PM

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

Origins Laboratory, Inc.
Y407436-10 (Soil)

PAH by EPA 8270E

Acenaphthene	ND	0.020	mg/kg	1	B4G1744	agile	07/17/2024	07/17/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	96.1 %	60-130	"	"	"
Surrogate: Anthracene-d10	88.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	93.1 %	60-130	"	"	"

Table 915 metals by EPA 6020B

Arsenic	0.775	0.252	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024
---------	-------	-------	-------	----	---------	-----	------------	------------

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B11@20'

7/17/2024 1:00:00PM

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

Origins Laboratory, Inc.

Y407436-10 (Soil)

Table 915 metals by EPA 6020B

Barium	20.7	8.69	mg/kg	10	B4G1753	HJD	07/17/2024	07/18/2024	
Cadmium	ND	0.0869	"	"	"	HJD	"	"	U
Lead	2.48	0.869	"	"	"	HJD	"	"	
Nickel	3.71	0.869	"	"	"	HJD	"	"	
Selenium	0.361	0.226	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B										
Blank (B4G1735-BLK1)					Prepared: 07/17/2024 Analyzed: 07/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.0	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.

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B

LCS (B4G1735-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

Diesel (C10-C28)	992	50.0	mg/kg	1000		99.2	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	61		"	49.8		123	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.

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B

Matrix Spike (B4G1735-MS1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1735 - EPA 3550B

Matrix Spike Dup (B4G1735-MSD1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	2.13	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	2.53	35	
Surrogate: o-Terphenyl	54		"	49.8		108	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.

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)

Blank (B4G1748-BLK1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)

LCS (B4G1748-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0984	0.00200	"	0.100		98.4	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.0955	0.00200	"	0.100		95.5	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)

Matrix Spike (B4G1748-MS1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	ND	97.5	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Benzene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130			
Toluene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
m,p-Xylene	0.184	0.00400	"	0.200	ND	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1748 - EPA 5030 (soil)

Matrix Spike Dup (B4G1748-MSD1)		Source: Y407426-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100	ND	91.9	70-130	5.98	20	
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	3.98	20	
Benzene	0.0880	0.00200	"	0.100	ND	88.0	70-130	8.57	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	3.17	20	
Naphthalene	0.0988	0.00380	"	0.100	ND	98.8	70-130	7.56	20	
Toluene	0.0868	0.00200	"	0.100	ND	86.8	70-130	5.27	20	
o-Xylene	0.0874	0.00200	"	0.100	ND	87.4	70-130	4.54	20	
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.3	70-130	4.37	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1753 - EPA 3050B

Blank (B4G1753-BLK1)

Prepared: 07/17/2024 Analyzed: 07/18/2024

Arsenic	ND	0.290	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Nickel	ND	1.00	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.100	"							U
Zinc	ND	37.0	"							U

LCS (B4G1753-BS1)

Prepared: 07/17/2024 Analyzed: 07/18/2024

Arsenic	5.74	0.290	mg/kg	5.00	115	80-120
Barium	541	10.0	"	500	108	80-120
Cadmium	5.69	0.100	"	5.00	114	80-120
Copper	59.6	10.0	"	50.0	119	80-120
Lead	5.52	1.00	"	5.00	110	80-120
Nickel	5.97	1.00	"	5.00	119	80-120
Selenium	5.66	0.260	"	5.00	113	80-120
Silver	5.81	0.100	"	5.00	116	80-120
Zinc	57.6	37.0	"	50.0	115	80-120

Matrix Spike (B4G1753-MS1)

Source: Y407436-01

Prepared: 07/17/2024 Analyzed: 07/18/2024

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4G1753 - EPA 3050B

Matrix Spike (B4G1753-MS1)		Source: Y407436-01			Prepared: 07/17/2024 Analyzed: 07/18/2024					
Arsenic	6.41	0.267	mg/kg	4.60	1.99	96.3	75-125			
Barium	528	9.19	"	460	67.8	100	75-125			
Cadmium	5.03	0.0919	"	4.60	0.0540	108	75-125			
Copper	56.6	9.19	"	46.0	7.41	107	75-125			
Lead	10.3	0.919	"	4.60	8.35	41.6	75-125			QM-07
Nickel	10.5	0.919	"	4.60	10.3	4.47	75-125			QM-07
Selenium	5.00	0.239	"	4.60	0.0749	107	75-125			
Silver	5.06	0.0919	"	4.60	0.0392	109	75-125			
Zinc	70.7	34.0	"	46.0	40.9	64.9	75-125			QM-07
Matrix Spike Dup (B4G1753-MSD1)		Source: Y407436-01			Prepared: 07/17/2024 Analyzed: 07/18/2024					
Arsenic	6.42	0.247	mg/kg	4.27	1.99	104	75-125	0.0563	20	
Barium	538	8.53	"	427	67.8	110	75-125	1.78	20	
Cadmium	5.09	0.0853	"	4.27	0.0540	118	75-125	1.25	20	
Copper	58.2	8.53	"	42.7	7.41	119	75-125	2.81	20	
Lead	10.6	0.853	"	4.27	8.35	52.4	75-125	3.10	20	QM-07
Nickel	10.8	0.853	"	4.27	10.3	11.8	75-125	2.79	20	QM-07
Selenium	5.13	0.222	"	4.27	0.0749	118	75-125	2.42	20	
Silver	5.10	0.0853	"	4.27	0.0392	119	75-125	0.858	20	
Zinc	71.6	31.6	"	42.7	40.9	72.0	75-125	1.25	20	QM-07

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

Blank (B4G1744-BLK1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		91.9	60-130			
Surrogate: Pyrene-d10	230		"	200		113	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		109	60-130			

LCS (B4G1744-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.7	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200		91.3	70-130
Acenaphthene	0.201	0.020	"	0.200		101	70-130
Anthracene	0.176	0.020	"	0.200		87.8	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

LCS (B4G1744-BS1)

Prepared: 07/17/2024 Analyzed: 07/17/2024

Benzo (a) anthracene	0.182	0.005	mg/kg	0.200		90.9	70-130
Benzo (a) pyrene	0.192	0.020	"	0.200		96.1	70-130
Benzo (b) fluoranthene	0.220	0.020	"	0.200		110	70-130
Benzo (g,h,i) perylene	0.235	0.020	"	0.200		117	70-130
Benzo (k) fluoranthene	0.211	0.020	"	0.200		105	70-130
Chrysene	0.203	0.020	"	0.200		101	70-130
Dibenz (a,h) anthracene	0.233	0.020	"	0.200		116	70-130
Fluoranthene	0.194	0.020	"	0.200		97.1	70-130
Fluorene	0.208	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200		109	70-130
Naphthalene	0.205	0.002	"	0.200		102	70-130
Phenanthrene	0.209	0.020	"	0.200		105	70-130
Pyrene	0.211	0.020	"	0.200		105	70-130
Surrogate: Fluorene-d10	190		ug/kg	200		94.0	60-130
Surrogate: Anthracene-d10	170		"	200		87.1	60-130
Surrogate: Pyrene-d10	210		"	200		107	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

Matrix Spike (B4G1744-MS1)

Source: Y407138-01

Prepared: 07/17/2024 Analyzed: 07/17/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.009	92.6	70-130
2-Methylnaphthalene	0.183	0.002	"	0.200	0.002	90.4	70-130
Acenaphthene	0.199	0.020	"	0.200	0.002	98.8	70-130
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130
Benzo (a) anthracene	0.161	0.005	"	0.200	0.004	78.6	70-130
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.7	70-130
Benzo (b) fluoranthene	0.231	0.020	"	0.200	ND	115	70-130
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.0008	101	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

Matrix Spike (B4G1744-MS1)		Source: Y407138-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Benzo (k) fluoranthene	0.201	0.020	mg/kg	0.200	ND	100	70-130			
Chrysene	0.191	0.020	"	0.200	0.0006	95.0	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	ND	117	70-130			
Fluoranthene	0.151	0.020	"	0.200	ND	75.3	70-130			
Fluorene	0.208	0.020	"	0.200	0.004	102	70-130			
Indeno (1,2,3-cd) pyrene	0.253	0.020	"	0.200	ND	126	70-130			
Naphthalene	0.186	0.002	"	0.200	ND	93.0	70-130			
Phenanthrene	0.209	0.020	"	0.200	0.004	102	70-130			
Pyrene	0.165	0.020	"	0.200	0.0008	81.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		90.0	60-130			
Surrogate: Pyrene-d10	170		"	200		87.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4G1744-MSD1)		Source: Y407138-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	0.009	101	70-130	8.26	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	0.002	96.8	70-130	6.69	20	
Acenaphthene	0.217	0.020	"	0.200	0.002	107	70-130	8.30	20	
Anthracene	0.185	0.020	"	0.200	ND	92.6	70-130	3.71	20	
Benzo (a) anthracene	0.203	0.005	"	0.200	0.004	99.5	70-130	23.0	20	QR-02
Benzo (a) pyrene	0.196	0.020	"	0.200	ND	98.0	70-130	8.85	20	
Benzo (b) fluoranthene	0.230	0.020	"	0.200	ND	115	70-130	0.367	20	
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	0.0008	88.8	70-130	12.6	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	0.422	20	
Chrysene	0.189	0.020	"	0.200	0.0006	93.9	70-130	1.12	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	108	70-130	7.28	20	
Fluoranthene	0.167	0.020	"	0.200	ND	83.4	70-130	10.2	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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1744 - EPA 3580

Matrix Spike Dup (B4G1744-MSD1)		Source: Y407138-01			Prepared: 07/17/2024 Analyzed: 07/17/2024					
Fluorene	0.213	0.020	mg/kg	0.200	0.004	105	70-130	2.24	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	ND	115	70-130	9.78	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	9.07	20	
Phenanthrene	0.229	0.020	"	0.200	0.004	112	70-130	9.25	20	
Pyrene	0.200	0.020	"	0.200	0.0008	99.7	70-130	19.5	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	180		"	200		88.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

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

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

August 20, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility****Project Number - 09A1417392**

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. July 18, 2024. This project is associated with Origins project number Y407489-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-S08@8'	Y407489-01	Soil	July 18, 2024 13:20	07/18/2024 16:58
TB01-S08@18'	Y407489-02	Soil	July 18, 2024 13:22	07/18/2024 16:58
TB01-E08@8'	Y407489-03	Soil	July 18, 2024 13:24	07/18/2024 16:58
TB01-E08@18'	Y407489-04	Soil	July 18, 2024 13:26	07/18/2024 16:58
TB01-E09@8'	Y407489-05	Soil	July 18, 2024 13:28	07/18/2024 16:58
TB01-E09@18'	Y407489-06	Soil	July 18, 2024 13:30	07/18/2024 16:58
TB01-B13@20'	Y407489-07	Soil	July 18, 2024 13:32	07/18/2024 16:58
NATIVE-BG11@15'	Y407489-08	Soil	July 18, 2024 12:20	07/18/2024 16:58
NATIVE-BG11@18'	Y407489-09	Soil	July 18, 2024 12:23	07/18/2024 16:58
NATIVE-BG12@15'	Y407489-10	Soil	July 18, 2024 12:26	07/18/2024 16:58
NATIVE-BG12@18'	Y407489-11	Soil	July 18, 2024 12:29	07/18/2024 16:58
NATIVE-BG13@15'	Y407489-12	Soil	July 18, 2024 12:32	07/18/2024 16:58
NATIVE-BG13@18'	Y407489-13	Soil	July 18, 2024 12:35	07/18/2024 16:58

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS

LABORATORY, INC

4407409

Page 1 of 2

Address: 11049 W 44th Ave. Ste. 100

Telephone Number: Wheat Ridge CO 80033

Email Address: KMG-Team

Project Manager: Jeremy Espinoza

Project Name: PSC 15-10 FSV, 24A&4 O SA Facility

Project Number: 09A1417392

Collected By: JR

Invoice/Billing Info: Impacted/ok

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
1	TSOI-SO8e81	7/18/14	1320	3	S	UNP	BTX	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	TSOI-SO8e81		1322				TVBS	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	TSOI-SO8e81		1324				TPH (SPE)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	TSOI-E08e18		1326				PAHs	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	TSOI-E09e81		1328				As, Cd, Pb, Ni, Se, Cu	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	TSOI-E09e81		1330				PH	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	TSOI-B13e20		1332				Boron	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	MTIVE-B611e151		1220	2			EC, SPE, TPC	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	MTIVE-B611e181		1223				GIS-metals	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	MTIVE-B612e151		1226					✓	✓	✓	✓	✓	✓	✓	✓	✓	

Relinquished By: [Signature] Date: 7/18/14 Time: 1658 Received By: [Signature] Date: 7/18/14 Time: 1658

Temp Received: 4.8 Received On Ice? ☒ Yes ☐ No

Turnaround Time: ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Origins Laboratory, Inc.

[Signature]

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS

ORIGINS WORK ORDER #

Page 2 of 2

LABORATORY INC
Client: Ensolum

Project Manager: Jeremy Espinoza

Key:

Address: 1049 W 44th Ave. Ste. 100

Project Name: PSC 15-10 FSV, 24A&4 OSA Facility

W=Water

Telephone Number: Wheat Ridge, CO 80033

Project Number: 09A1417392

GW=Groundwater

SW=Surface Water

Collected By: JE

Email Address: KMG-Ensolum

Invoice/Billing Info: Impacted/OSY

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							PH, EC	SPR (SD)	Boron	915-Metals							
1	NATIVE-BG12e18'	7/18/24	1229	2	S.	UNP	X	X	X								
2	NATIVE-BG13e15'		1232														
3	NATIVE-BG13e18'		1235														
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished By: [Signature] Date: 7/18/24 Time: 1658

Received By: [Signature] Date: 7/18/24 Time: 1658

Temp Received- 4.8 Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only:

Standard

48 Hr ☐ 72 Hr ☐

Turnaround Time ☒ SAME DAY ☐ 24 Hr

Origins Laboratory, Inc.

[Signature]

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407489

Client: Ensolum

Client Project ID: PSC 15-10

Checklist Completed by: JHE

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

Date/time completed: 7/18/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 48 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) JHE

Date/Time Reviewed 7/18/12

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S08@8'
7/18/2024 1:20:00PM

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

Origins Laboratory, Inc.
Y407489-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.392	0.0994	mg/L	1	B4G1915	07/19/2024	07/22/2024	
-------	-------	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.8 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	107 %	70-130	"	"	"
----------------------------------	-------	--------	---	---	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S08@8'

7/18/2024 1:20:00PM

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

Origins Laboratory, Inc.
Y407489-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %	70-130	B4G18 35	07/18/2024	07/19/2024
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	101 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S08@8'

7/18/2024 1:20:00PM

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

Origins Laboratory, Inc.
Y407489-01 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	102 %	60-130	B4G18 40	07/18/2024	07/18/2024
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.41	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	4.73	0.257	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	277	8.87	"	"	"	"	"
Cadmium	0.245	0.0887	"	"	"	"	"
Copper	11.7	8.87	"	"	"	"	"
Lead	10.6	0.887	"	"	"	"	"
Nickel	12.7	0.887	"	"	"	"	"
Selenium	0.321	0.231	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S08@18'
7/18/2024 1:22:00PM

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

Origins Laboratory, Inc.
Y407489-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B4G1915	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	93.7 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	107 %	70-130	"	"	"
----------------------------------	-------	--------	---	---	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S08@18'
7/18/2024 1:22:00PM

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

Origins Laboratory, Inc.
Y407489-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	110 %	70-130	B4G18 35	07/18/2024	07/19/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	99.0 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-S08@18'
7/18/2024 1:22:00PM

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

Origins Laboratory, Inc.
Y407489-02 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	101 %	60-130	B4G18 40	07/18/2024	07/18/2024
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.65	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.567	0.248	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	26.8	8.54	"	"	"	"	"
Cadmium	ND	0.0854	"	"	"	"	"
Copper	ND	8.54	"	"	"	"	"
Lead	3.71	0.854	"	"	"	"	"
Nickel	6.97	0.854	"	"	"	"	"
Selenium	1.72	0.222	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E08@8'
7/18/2024 1:24:00PM

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

Origins Laboratory, Inc.
Y407489-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0996	mg/L	1	B4G1915	07/19/2024	07/22/2024	
-------	----	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	92.6 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	108 %	70-130			"	"	"	
----------------------------------	-------	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E08@8'

7/18/2024 1:24:00PM

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

Origins Laboratory, Inc.
Y407489-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	107 %	70-130	B4G18 35	07/18/2024	07/19/2024
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	98.9 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E08@8'

7/18/2024 1:24:00PM

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

Origins Laboratory, Inc.
Y407489-03 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	101 %	60-130	B4G1840	07/18/2024	07/18/2024
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	5.21	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.20	0.281	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	20.8	9.69	"	"	"	"	"
Cadmium	ND	0.0969	"	"	"	"	"
Copper	ND	9.69	"	"	"	"	"
Lead	3.88	0.969	"	"	"	"	"
Nickel	2.52	0.969	"	"	"	"	"
Selenium	ND	0.252	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E08@18'
7/18/2024 1:26:00PM

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

Origins Laboratory, Inc.
Y407489-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G1915	07/19/2024	07/22/2024	
-------	----	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	83.8 %	70-130			"	"	"	
----------------------------------	--------	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E08@18'
7/18/2024 1:26:00PM

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

Origins Laboratory, Inc.
Y407489-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	74.6 %	70-130	B4G18 35	07/18/2024	07/19/2024	
Surrogate: 4-Bromofluorobenzene	68.6 %	70-130	"	"	"	S-GC

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	99.7 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E08@18'
7/18/2024 1:26:00PM

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

Origins Laboratory, Inc.
Y407489-04 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	102 %	60-130	B4G18 40	07/18/2024	07/18/2024
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.2 %	60-130	"	"	"

pH in Soil by 9045D

pH	4.62	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.792	0.266	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	34.1	9.17	"	"	"	"	"
Cadmium	ND	0.0917	"	"	"	"	"
Copper	ND	9.17	"	"	"	"	"
Lead	4.82	0.917	"	"	"	"	"
Nickel	8.79	0.917	"	"	"	"	"
Selenium	ND	0.238	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E09@8'
7/18/2024 1:28:00PM

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

Origins Laboratory, Inc.
Y407489-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G1915	07/19/2024	07/22/2024	
-------	----	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	92.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	82.8 %	70-130			"	"	"	
----------------------------------	--------	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E09@8'

7/18/2024 1:28:00PM

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

Origins Laboratory, Inc.
Y407489-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	72.3 %	70-130	B4G18 35	07/18/2024	07/19/2024	
Surrogate: 4-Bromofluorobenzene	64.9 %	70-130	"	"	"	S-GC

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	99.1 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E09@8'

7/18/2024 1:28:00PM

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

Origins Laboratory, Inc.
Y407489-05 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	101 %	60-130	B4G1840	07/18/2024	07/18/2024
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

pH in Soil by 9045D

pH	6.89	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.319	0.265	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	ND	9.12	"	"	"	"	"
Cadmium	ND	0.0912	"	"	"	"	"
Copper	ND	9.12	"	"	"	"	"
Lead	1.65	0.912	"	"	"	"	"
Nickel	ND	0.912	"	"	"	"	"
Selenium	ND	0.237	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E09@18'
7/18/2024 1:30:00PM

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

Origins Laboratory, Inc.
Y407489-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.987	mg/L	10	B4G1915	07/19/2024	07/24/2024	
-------	----	-------	------	----	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	78.2 %	70-130	"	"	"	"	"	"
----------------------------------	--------	--------	---	---	---	---	---	---

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E09@18'
7/18/2024 1:30:00PM

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

Origins Laboratory, Inc.
Y407489-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	67.2 %	70-130	B4G18 35	07/18/2024	07/19/2024	S-GC
Surrogate: 4-Bromofluorobenzene	61.9 %	70-130	"	"	"	S-GC

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E09@18'
7/18/2024 1:30:00PM

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

Origins Laboratory, Inc.
Y407489-06 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	101 %	60-130	B4G18 40	07/18/2024	07/18/2024
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	4.20	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.779	0.259	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	22.1	8.94	"	"	"	"	"
Cadmium	ND	0.0894	"	"	"	"	"
Copper	ND	8.94	"	"	"	"	"
Lead	3.52	0.894	"	"	"	"	"
Nickel	4.55	0.894	"	"	"	"	"
Selenium	0.398	0.233	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B13@20'
7/18/2024 1:32:00PM

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

Origins Laboratory, Inc.
Y407489-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.109	0.0998	mg/L	1	B4G1915	07/19/2024	07/22/2024
-------	-------	--------	------	---	---------	------------	------------

DRO/ORO by EPA 8015D

Diesel (C10-C28)	466	25.0	mg/kg	1	B4G1834	07/18/2024	07/18/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.7 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G1835	07/18/2024	07/19/2024	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	122	5.00	"	25	"	"	07/19/2024	

Surrogate: 1,2-Dichloroethane-d4	80.5 %	70-130	"	"	07/19/2024
Surrogate: Toluene-d8	77.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B13@20'
7/18/2024 1:32:00PM

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

Origins Laboratory, Inc.
Y407489-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 56.3 % 70-130 B4G18 35 07/18/2024 07/19/2024 GC

PAH by EPA 8270E

1-Methylnaphthalene	0.420	0.002	mg/kg	1	B4G1840	07/18/2024	07/18/2024	
2-Methylnaphthalene	0.999	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	0.111	0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	0.007	0.002	"	"	"	"	"	
Pyrene	ND	0.020	"	"	"	"	"	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B13@20'
7/18/2024 1:32:00PM

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

Origins Laboratory, Inc.
Y407489-07 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	95.9 %	60-130	B4G1840	07/18/2024	07/18/2024
Surrogate: Anthracene-d10	103 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.0 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B4G2225	07/22/2024	07/23/2024
----	------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	2.91	0.272	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	52.0	9.37	"	"	"	"	"
Cadmium	ND	0.0937	"	"	"	"	"
Copper	ND	9.37	"	"	"	"	"
Lead	4.63	0.937	"	"	"	"	"
Nickel	6.75	0.937	"	"	"	"	"
Selenium	0.820	0.244	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG11@15'
7/18/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y407489-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G1915	07/19/2024	07/22/2024
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	0.912	0.499	meq/L	10	[CALC]	07/19/2024	07/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.700	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B4G1922	07/19/2024	07/19/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.901	0.0100	SAR	1	B4G1909	07/19/2024	07/22/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.223	0.00500	mmhos/cm	1	B4G1922	07/19/2024	07/19/2024
---------------------------	-------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.06	0.256	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	26.5	8.81	"	"	"	"	"
Cadmium	ND	0.0881	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG11@15'

7/18/2024 12:20:00PM

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

Origins Laboratory, Inc. Y407489-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.81	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Lead	4.25	0.881	"	"	"	"	"
Nickel	3.84	0.881	"	"	"	"	"
Selenium	ND	0.229	"	"	"	"	"
Silver	ND	0.0881	"	"	"	"	"
Zinc	ND	32.6	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.299	0.132	0.330	mg/kg dry	1	2658107	08/16/2024	08/19/2024	J
---------------------	-------	-------	-------	-----------	---	---------	------------	------------	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG11@18'
7/18/2024 12:23:00PM

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

Origins Laboratory, Inc.
Y407489-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4G1915	07/19/2024	07/22/2024
-------	----	--------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/19/2024	07/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.493	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.89	pH Units	1	B4G1922	07/19/2024	07/19/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	1.95	0.0100	SAR	1	B4G1909	07/19/2024	07/22/2024
-----	------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0939	0.00500	mmhos/cm	1	B4G1922	07/19/2024	07/19/2024
---------------------------	--------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.813	0.271	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	36.5	9.34	"	"	"	"	"
Cadmium	ND	0.0934	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG11@18'

7/18/2024 12:23:00PM

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

Origins Laboratory, Inc. Y407489-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.34	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Lead	6.31	0.934	"	"	"	"	"
Nickel	9.99	0.934	"	"	"	"	"
Selenium	0.373	0.243	"	"	"	"	"
Silver	ND	0.0934	"	"	"	"	"
Zinc	ND	34.6	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.309	0.155	0.388	mg/kg dry	1	2658107	08/16/2024	08/19/2024	J
---------------------	-------	-------	-------	-----------	---	---------	------------	------------	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG12@15'
7/18/2024 12:26:00PM

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

Origins Laboratory, Inc.
Y407489-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4G1916	07/19/2024	07/22/2024
-------	----	--------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/19/2024	07/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.62		pH Units	1	B4G1922	07/19/2024	07/19/2024
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.730	0.0100	SAR	1	B4G1909	07/19/2024	07/22/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.105	0.00500	mmhos/cm	1	B4G1922	07/19/2024	07/19/2024
---------------------------	-------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.619	0.255	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	19.5	8.80	"	"	"	"	"
Cadmium	ND	0.0880	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG12@15'
7/18/2024 12:26:00PM

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

Origins Laboratory, Inc.
Y407489-10 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.80	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Lead	3.33	0.880	"	"	"	"	"
Nickel	1.34	0.880	"	"	"	"	"
Selenium	ND	0.229	"	"	"	"	"
Silver	ND	0.0880	"	"	"	"	"
Zinc	ND	32.5	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.326	0.144	0.360	mg/kg dry	1	2658107	08/16/2024	08/19/2024	J
---------------------	--------------	--------------	-------	-----------	---	---------	------------	------------	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG12@18'
7/18/2024 12:29:00PM

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

Origins Laboratory, Inc.
Y407489-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G1916	07/19/2024	07/22/2024
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/19/2024	07/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.76		pH Units	1	B4G1922	07/19/2024	07/19/2024
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.554	0.0100	SAR	1	B4G1909	07/19/2024	07/22/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0536	0.00500	mmhos/cm	1	B4G1922	07/19/2024	07/19/2024
---------------------------	--------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.507	0.257	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	11.9	8.85	"	"	"	"	"
Cadmium	ND	0.0885	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG12@18'

7/18/2024 12:29:00PM

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

Origins Laboratory, Inc. Y407489-11 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.85	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Lead	2.20	0.885	"	"	"	"	"
Nickel	1.17	0.885	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.0885	"	"	"	"	"
Zinc	ND	32.8	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.245	0.123	0.307	mg/kg dry	1	2658107	08/16/2024	08/19/2024	J
---------------------	-------	-------	-------	-----------	---	---------	------------	------------	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG13@15'

7/18/2024 12:32:00PM

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

Origins Laboratory, Inc. Y407489-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G1916	07/19/2024	07/22/2024
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/19/2024	07/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.51		pH Units	1	B4G1922	07/19/2024	07/19/2024
----	------	--	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.424	0.0100	SAR	1	B4G1909	07/19/2024	07/22/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0494	0.00500	mmhos/cm	1	B4G1922	07/19/2024	07/19/2024
---------------------------	--------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.963	0.280	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	22.7	9.65	"	"	"	"	"
Cadmium	ND	0.0965	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG13@15'
7/18/2024 12:32:00PM

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

Origins Laboratory, Inc.
Y407489-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.65	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Lead	3.06	0.965	"	"	"	"	"
Nickel	2.38	0.965	"	"	"	"	"
Selenium	ND	0.251	"	"	"	"	"
Silver	ND	0.0965	"	"	"	"	"
Zinc	ND	35.7	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.297	0.172	0.431	mg/kg dry	1	2658107	08/16/2024	08/19/2024	J
---------------------	--------------	--------------	-------	-----------	---	---------	------------	------------	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG13@18'
7/18/2024 12:35:00PM

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

Origins Laboratory, Inc.
Y407489-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4G1916	07/19/2024	07/22/2024
-------	----	-------	------	---	---------	------------	------------

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/19/2024	07/22/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.43	pH Units	1	B4G1922	07/19/2024	07/19/2024
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.901	0.0100	SAR	1	B4G1909	07/19/2024	07/22/2024
-----	-------	--------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0828	0.00500	mmhos/cm	1	B4G1922	07/19/2024	07/19/2024
---------------------------	--------	---------	----------	---	---------	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.06	0.244	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Barium	37.6	8.41	"	"	"	"	"
Cadmium	ND	0.0841	"	"	"	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

NATIVE-BG13@18'

7/18/2024 12:35:00PM

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

Origins Laboratory, Inc. Y407489-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.41	mg/kg	10	B4G1844	07/18/2024	07/19/2024
Lead	4.71	0.841	"	"	"	"	"
Nickel	5.82	0.841	"	"	"	"	"
Selenium	ND	0.219	"	"	"	"	"
Silver	ND	0.0841	"	"	"	"	"
Zinc	ND	31.1	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.311	0.137	0.342	mg/kg dry	1	2658107	08/16/2024	08/19/2024	J
---------------------	-------	-------	-------	-----------	---	---------	------------	------------	---

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1834 - EPA 3550B										
Blank (B4G1834-BLK1)					Prepared: 07/18/2024 Analyzed: 07/18/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		103	50-150			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1834 - EPA 3550B

LCS (B4G1834-BS1)

Prepared: 07/18/2024 Analyzed: 07/18/2024

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.5	50-150			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1834 - EPA 3550B

Matrix Spike (B4G1834-MS1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	61		"	49.8		123	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1834 - EPA 3550B

Matrix Spike Dup (B4G1834-MSD1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130	4.04	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	6.58	35	
Surrogate: o-Terphenyl	54		"	49.8		109	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1835 - EPA 5030 (soil)										
Blank (B4G1835-BLK1)					Prepared: 07/18/2024 Analyzed: 07/18/2024					
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	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1835 - EPA 5030 (soil)										
LCS (B4G1835-BS1)					Prepared: 07/18/2024 Analyzed: 07/18/2024					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.0898	0.00200	"	0.100		89.8	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.118	0.00380	"	0.100		118	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.232	0.00400	"	0.200		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1835 - EPA 5030 (soil)

Matrix Spike (B4G1835-MS1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
1,2,4-Trimethylbenzene	0.0870	0.00200	mg/kg	0.100	ND	87.0	70-130			
1,3,5-Trimethylbenzene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
Benzene	0.0771	0.00200	"	0.100	ND	77.1	70-130			
Ethylbenzene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
Naphthalene	0.0765	0.00380	"	0.100	ND	76.5	70-130			
Toluene	0.0779	0.00200	"	0.100	ND	77.9	70-130			
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1835 - EPA 5030 (soil)										
Matrix Spike Dup (B4G1835-MSD1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
1,2,4-Trimethylbenzene	0.0810	0.00200	mg/kg	0.100	ND	81.0	70-130	7.07	20	
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	3.36	20	
Benzene	0.0783	0.00200	"	0.100	ND	78.3	70-130	1.57	20	
Ethylbenzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	3.51	20	
Naphthalene	0.0822	0.00380	"	0.100	ND	82.2	70-130	7.16	20	
Toluene	0.0817	0.00200	"	0.100	ND	81.7	70-130	4.81	20	
o-Xylene	0.0795	0.00200	"	0.100	ND	79.5	70-130	4.42	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.4	70-130	1.63	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

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

Batch B4G1844 - EPA 3050B

Blank (B4G1844-BLK1)

Prepared: 07/18/2024 Analyzed: 07/19/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4G1844-BS1)

Prepared: 07/18/2024 Analyzed: 07/19/2024

Arsenic	4.74	0.290	mg/kg	5.00	94.9	80-120
Barium	477	10.0	"	500	95.4	80-120
Cadmium	5.04	0.100	"	5.00	101	80-120
Copper	43.1	10.0	"	50.0	86.2	80-120
Lead	4.65	1.00	"	5.00	93.1	80-120
Nickel	4.57	1.00	"	5.00	91.4	80-120
Selenium	4.25	0.260	"	5.00	84.9	80-120
Silver	4.99	0.100	"	5.00	99.9	80-120
Zinc	44.6	37.0	"	50.0	89.3	80-120

Matrix Spike (B4G1844-MS1)

Source: Y407491-01

Prepared: 07/18/2024 Analyzed: 07/19/2024

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
Batch B4G1844 - EPA 3050B										
Matrix Spike (B4G1844-MS1)			Source: Y407491-01		Prepared: 07/18/2024 Analyzed: 07/19/2024					
Arsenic	10.8	0.283	mg/kg	4.89	5.48	110	75-125			
Barium	539	9.77	"	489	116	86.6	75-125			
Cadmium	4.64	0.0977	"	4.89	0.175	91.5	75-125			
Copper	56.3	9.77	"	48.9	11.0	92.6	75-125			
Lead	15.3	0.977	"	4.89	11.7	72.4	75-125			QM-07
Nickel	16.4	0.977	"	4.89	12.5	78.7	75-125			
Selenium	4.33	0.254	"	4.89	0.174	85.0	75-125			
Silver	4.55	0.0977	"	4.89	0.0434	92.3	75-125			
Zinc	91.4	36.2	"	48.9	49.5	85.7	75-125			
Matrix Spike Dup (B4G1844-MSD1)			Source: Y407491-01		Prepared: 07/18/2024 Analyzed: 07/19/2024					
Arsenic	11.3	0.260	mg/kg	4.49	5.48	129	75-125	4.13	20	QM-07
Barium	616	8.98	"	449	116	111	75-125	13.3	20	
Cadmium	5.19	0.0898	"	4.49	0.175	112	75-125	11.2	20	
Copper	60.3	8.98	"	44.9	11.0	110	75-125	6.85	20	
Lead	17.0	0.898	"	4.49	11.7	118	75-125	10.9	20	
Nickel	18.4	0.898	"	4.49	12.5	130	75-125	11.5	20	QM-07
Selenium	5.04	0.233	"	4.49	0.174	108	75-125	15.2	20	
Silver	5.09	0.0898	"	4.49	0.0434	113	75-125	11.2	20	
Zinc	102	33.2	"	44.9	49.5	116	75-125	10.6	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1840 - EPA 3580

Blank (B4G1840-BLK1)

Prepared: 07/18/2024 Analyzed: 07/18/2024

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

Surrogate: Fluorene-d10	200		ug/kg	200	99.6	60-130
Surrogate: Anthracene-d10	210		"	200	103	60-130
Surrogate: Pyrene-d10	210		"	200	103	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200	97.3	60-130

LCS (B4G1840-BS1)

Prepared: 07/18/2024 Analyzed: 07/18/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	93.2	70-130
2-Methylnaphthalene	0.186	0.002	"	0.200	92.9	70-130
Acenaphthene	0.186	0.020	"	0.200	93.1	70-130
Anthracene	0.185	0.020	"	0.200	92.6	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1840 - EPA 3580

LCS (B4G1840-BS1)

Prepared: 07/18/2024 Analyzed: 07/18/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.3	70-130
Benzo (a) pyrene	0.201	0.020	"	0.200		100	70-130
Benzo (b) fluoranthene	0.185	0.020	"	0.200		92.5	70-130
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.3	70-130
Benzo (k) fluoranthene	0.174	0.020	"	0.200		87.2	70-130
Chrysene	0.186	0.020	"	0.200		93.2	70-130
Dibenz (a,h) anthracene	0.186	0.020	"	0.200		93.2	70-130
Fluoranthene	0.191	0.020	"	0.200		95.6	70-130
Fluorene	0.185	0.020	"	0.200		92.3	70-130
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200		94.1	70-130
Naphthalene	0.185	0.002	"	0.200		92.5	70-130
Phenanthrene	0.187	0.020	"	0.200		93.3	70-130
Pyrene	0.194	0.020	"	0.200		96.9	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130
Surrogate: Anthracene-d10	200		"	200		102	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130

Matrix Spike (B4G1840-MS1)

Source: Y407480-01

Prepared: 07/18/2024 Analyzed: 07/18/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130
Acenaphthene	0.200	0.020	"	0.200	ND	99.9	70-130
Anthracene	0.207	0.020	"	0.200	0.0008	103	70-130
Benzo (a) anthracene	0.207	0.005	"	0.200	0.002	103	70-130
Benzo (a) pyrene	0.213	0.020	"	0.200	0.001	106	70-130
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.003	98.7	70-130
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	ND	98.1	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1840 - EPA 3580

Matrix Spike (B4G1840-MS1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
Benzo (k) fluoranthene	0.187	0.020	mg/kg	0.200	0.001	93.0	70-130			
Chrysene	0.198	0.020	"	0.200	0.005	97.0	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.1	70-130			
Fluoranthene	0.207	0.020	"	0.200	0.004	101	70-130			
Fluorene	0.203	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	0.001	99.4	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.6	70-130			
Phenanthrene	0.201	0.020	"	0.200	ND	100	70-130			
Pyrene	0.206	0.020	"	0.200	0.005	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike Dup (B4G1840-MSD1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	97.2	70-130	2.86	20	
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	96.9	70-130	3.28	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.6	70-130	2.39	20	
Anthracene	0.193	0.020	"	0.200	0.0008	96.1	70-130	7.03	20	
Benzo (a) anthracene	0.199	0.005	"	0.200	0.002	99.0	70-130	3.57	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	0.001	102	70-130	3.31	20	
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.003	97.5	70-130	1.17	20	
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	94.9	70-130	3.25	20	
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.001	92.3	70-130	0.788	20	
Chrysene	0.186	0.020	"	0.200	0.005	90.9	70-130	6.32	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	6.41	20	
Fluoranthene	0.199	0.020	"	0.200	0.004	97.4	70-130	3.81	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G1840 - EPA 3580

Matrix Spike Dup (B4G1840-MSD1)		Source: Y407480-01			Prepared: 07/18/2024 Analyzed: 07/18/2024					
Fluorene	0.193	0.020	mg/kg	0.200	ND	96.7	70-130	4.77	20	
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	0.001	96.0	70-130	3.42	20	
Naphthalene	0.194	0.002	"	0.200	ND	96.8	70-130	2.89	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.2	70-130	4.42	20	
Pyrene	0.198	0.020	"	0.200	0.005	96.8	70-130	3.79	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G1909 - Saturated Paste Metals

Blank (B4G1909-BLK1)

Prepared: 07/19/2024 Analyzed: 07/22/2024

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

Duplicate (B4G1909-DUP1)

Source: Y407483-12

Prepared: 07/19/2024 Analyzed: 07/22/2024

SAR	ND	0.0100	SAR	0.941		200
Calcium PPM	18.3	10.0	mg/L	16.9	8.12	50
Magnesium PPM	3.60	10.0	"	3.38	6.30	50
Sodium PPM	17.1	10.0	"	16.2	5.53	50

Batch B4G1915 - DTPA Sorbitol Preparation

Blank (B4G1915-BLK1)

Prepared: 07/19/2024 Analyzed: 07/22/2024

Boron	ND	0.100	mg/L
-------	----	-------	------

Duplicate (B4G1915-DUP1)

Source: Y407481-04

Prepared: 07/19/2024 Analyzed: 07/22/2024

Boron	0.240	0.0986	mg/L	0.222	7.66	50
-------	-------	--------	------	-------	------	----

Batch B4G1916 - DTPA Sorbitol Preparation

Blank (B4G1916-BLK1)

Prepared: 07/19/2024 Analyzed: 07/22/2024

Boron	ND	0.100	mg/L
-------	----	-------	------

Duplicate (B4G1916-DUP1)

Source: Y407489-10

Prepared: 07/19/2024 Analyzed: 07/22/2024

Boron	0.0311	0.0983	mg/L	0.0300	3.44	50
-------	--------	--------	------	--------	------	----

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G1922 - Saturated Paste pH/EC										
Blank (B4G1922-BLK1)					Prepared: 07/19/2024 Analyzed: 07/20/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4G1922-DUP1)					Source: Y407483-12 Prepared: 07/19/2024 Analyzed: 07/19/2024					
Specific Conductance (EC)	0.227	0.00500	mmhos/cm		0.215			5.34	25	
pH	8.38		pH Units		8.38			0.00	25	
Batch B4G2225 - Saturated Paste pH/EC										
Duplicate (B4G2225-DUP1)					Source: Y407445-04 Prepared: 07/22/2024 Analyzed: 07/23/2024					
pH	8.29		pH Units		8.26			0.363	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Total Metals 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2658107 - SW846 3060A										
BLANK (1205824622-BLK)					Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	ND	0.302	mg/kg				-			U
LCS (1205824623-BKS)					Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	3.14	0.320	mg/kg	3.20		98.4	80-120			
DUP (1205824624 D)					Source: 676963002 Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	ND	0.429	mg/kg dry		<0.172		0-50	N/A	50	U
MS (1205824625 S)					Source: 676963002 Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	2.96	0.429	mg/kg dry	4.29	<0.172	66.4	75-125			
DUP (1205824626 D)					Source: 676977002 Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	ND	0.508	mg/kg dry		0.239		0-50	N/A	50	U
MS (1205824627 S)					Source: 676977002 Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	4.67	0.508	mg/kg dry	5.08	0.239	87.1	75-125			
ILCS (1205824628-ILCS)					Prepared: 08/16/2024 Analyzed: 08/19/2024					
Hexavalent Chromium	6.77	0.332	mg/kg	6.71		101	80-120			

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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

August 01, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility**

Project Number - 09A1417392

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. July 25, 2024. This project is associated with Origins project number Y407665-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-W05@8'	Y407665-01	Soil	July 25, 2024 9:08	07/25/2024 15:16
TB01-W05@18'	Y407665-02	Soil	July 25, 2024 9:12	07/25/2024 15:16
TB01-W06@8'	Y407665-03	Soil	July 25, 2024 9:16	07/25/2024 15:16
TB01-W06@18'	Y407665-04	Soil	July 25, 2024 9:22	07/25/2024 15:16
TB01-W07@8'	Y407665-05	Soil	July 25, 2024 9:26	07/25/2024 15:16
TB01-W07@18'	Y407665-06	Soil	July 25, 2024 9:30	07/25/2024 15:16
TB01-B14@20'	Y407665-07	Soil	July 25, 2024 9:32	07/25/2024 15:16
TB01-B15@20'	Y407665-08	Soil	July 25, 2024 9:36	07/25/2024 15:16

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS
LABORATORY INC

ORIGINS WORK ORDER #

44091665

Page 1 of 1

Client: Ensolum

Project Manager: J. Espinoza

Key:

Address:

Project Name: PSC 15-10 FSV, 24A&4 O SA Facility

W=Water

Telephone Number:

Project Number: 09A1417392

GW=Groundwater

Email Address: KMG Team

Collected By: HK

SW=Surface Water



S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Invoice/Billing Info: Impacted

WW=Waste Water

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							BTEX	IMBS	TPH	PAHs	PH	Baron	As, Ba	Cd, Cu	Pb, Ni	Se	
1	TB01-W05 e 8'	7/25/24	0908	3	S	unp	X	X	X	X	X	X	X	X	X	X	
2	TB01-W05 e 18'		0912				X	X	X	X	X	X	X	X	X	X	
3	TB01-W06 e 8'		0916				X	X	X	X	X	X	X	X	X	X	
4	TB01-W06 e 18'		0922				X	X	X	X	X	X	X	X	X	X	
5	TB01-W07 e 8'		0926				X	X	X	X	X	X	X	X	X	X	
6	TB01-W07 e 18'		0930				X	X	X	X	X	X	X	X	X	X	
7	TB01-B14 e 20'		0932				X	X	X	X	X	X	X	X	X	X	
8	TB01-B15 e 20'		0936				X	X	X	X	X	X	X	X	X	X	
9																	
10																	

Relinquished By: 	Date: 7/25/24	Time: 1516	Received By: 	Date: 7/25/24	Time: 1516
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

☒ SAME DAY

☐ 48 Hr ☐ 72 Hr

Standard

Relinquished By: [Signature] Date: 7/25/24 Time: 1516 Received By: [Signature] Date: 7/25/24 Time: 1516

Temp Received- 10 Received On Ice? ☒ Yes ☐ No

Turnaround Time ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard ☐ ☒ For Lab Sample Receiving Only:

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407065

Client: Ensolum

Client Project ID: PSC 15-10 FSV

Checklist Completed by: EH

Shipped Via: HO

Date/time completed: 7/25/12

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

Airbill #: N/A

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

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

Thermometer ID: 7005

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

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

Reviewed by (Project Manager) EH

Date/Time Reviewed 7/25/12

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W05@8'
7/25/2024 9:08:00AM

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

Origins Laboratory, Inc.
Y407665-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	79.6 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W05@8'

7/25/2024 9:08:00AM

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

Origins Laboratory, Inc.
Y407665-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.1 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W05@8'

7/25/2024 9:08:00AM

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

Origins Laboratory, Inc.
Y407665-01 (Soil)

pH in Soil by 9045D

pH	8.16	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.62	0.261	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	34.8	9.00	"	"	"	KMC	"	"
Cadmium	ND	0.0900	"	"	"	KMC	"	"
Copper	ND	9.00	"	"	"	KMC	"	"
Lead	4.56	0.900	"	"	"	KMC	"	"
Nickel	3.73	0.900	"	"	"	KMC	"	"
Selenium	ND	0.234	"	"	"	KMC	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W05@18'

7/25/2024 9:12:00AM

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

Origins Laboratory, Inc. Y407665-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0998	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	77.2	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	92.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	18.1	5.00	"	25	"	ZZZ	"	07/26/2024	

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130			"	"	07/26/2024
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W05@18'

7/25/2024 9:12:00AM

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

Origins Laboratory, Inc.
Y407665-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.253	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/26/2024	
2-Methylnaphthalene	0.715	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.051	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.002	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.3 %	60-130	"	"	"

pH in Soil by 9045D

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W05@18'

7/25/2024 9:12:00AM

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

Origins Laboratory, Inc.
Y407665-02 (Soil)

pH in Soil by 9045D

pH	8.29	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.06	0.271	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	25.7	9.35	"	"	"	KMC	"	"
Cadmium	ND	0.0935	"	"	"	KMC	"	"
Copper	ND	9.35	"	"	"	KMC	"	"
Lead	4.16	0.935	"	"	"	KMC	"	"
Nickel	5.94	0.935	"	"	"	KMC	"	"
Selenium	ND	0.243	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W06@8'
7/25/2024 9:16:00AM

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

Origins Laboratory, Inc.
Y407665-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	80.2 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W06@8'

7/25/2024 9:16:00AM

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

Origins Laboratory, Inc.
Y407665-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W06@8'

7/25/2024 9:16:00AM

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

Origins Laboratory, Inc.
Y407665-03 (Soil)

pH in Soil by 9045D

pH	8.29	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	2.29	0.288	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	46.3	9.95	"	"	"	KMC	"	"
Cadmium	ND	0.0995	"	"	"	KMC	"	"
Copper	ND	9.95	"	"	"	KMC	"	"
Lead	6.76	0.995	"	"	"	KMC	"	"
Nickel	5.00	0.995	"	"	"	KMC	"	"
Selenium	ND	0.259	"	"	"	KMC	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W06@18'

7/25/2024 9:22:00AM

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

Origins Laboratory, Inc. Y407665-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	83.1 %	50-150			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	3.38	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.6 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W06@18'
7/25/2024 9:22:00AM

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

Origins Laboratory, Inc.
Y407665-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.059	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/25/2024	
2-Methylnaphthalene	0.065	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	97.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W06@18'

7/25/2024 9:22:00AM

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

Origins Laboratory, Inc.
Y407665-04 (Soil)

pH in Soil by 9045D

pH	8.29	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.17	0.284	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	15.9	9.80	"	"	"	KMC	"	"
Cadmium	ND	0.0980	"	"	"	KMC	"	"
Copper	ND	9.80	"	"	"	KMC	"	"
Lead	2.93	0.980	"	"	"	KMC	"	"
Nickel	3.40	0.980	"	"	"	KMC	"	"
Selenium	ND	0.255	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W07@8'
7/25/2024 9:26:00AM

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

Origins Laboratory, Inc.
Y407665-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0997	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	82.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.793	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W07@8'

7/25/2024 9:26:00AM

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

Origins Laboratory, Inc.
Y407665-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/25/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W07@8'

7/25/2024 9:26:00AM

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

Origins Laboratory, Inc.
Y407665-05 (Soil)

pH in Soil by 9045D

pH	7.50	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.28	0.277	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	27.4	9.56	"	"	"	KMC	"	"
Cadmium	ND	0.0956	"	"	"	KMC	"	"
Copper	ND	9.56	"	"	"	KMC	"	"
Lead	3.50	0.956	"	"	"	KMC	"	"
Nickel	2.24	0.956	"	"	"	KMC	"	"
Selenium	ND	0.248	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W07@18'
7/25/2024 9:30:00AM

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

Origins Laboratory, Inc.
Y407665-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.8	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	81.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	29.6	5.00	"	25	"	ZZZ	"	07/26/2024	

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130			"	"	07/26/2024
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W07@18'

7/25/2024 9:30:00AM

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

Origins Laboratory, Inc.
Y407665-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.189	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/26/2024	
2-Methylnaphthalene	0.462	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.039	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	94.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.1 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W07@18'

7/25/2024 9:30:00AM

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

Origins Laboratory, Inc.
Y407665-06 (Soil)

pH in Soil by 9045D

pH	8.32	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.62	0.282	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	36.4	9.74	"	"	"	KMC	"	"
Cadmium	ND	0.0974	"	"	"	KMC	"	"
Copper	ND	9.74	"	"	"	KMC	"	"
Lead	4.59	0.974	"	"	"	KMC	"	"
Nickel	7.76	0.974	"	"	"	KMC	"	"
Selenium	ND	0.253	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B14@20'
7/25/2024 9:32:00AM

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

Origins Laboratory, Inc.
Y407665-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	303	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.0500	mg/kg	25	B4G2535	ZZZ	07/25/2024	07/26/2024	R-05, U
1,3,5-Trimethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	R-05, U
Benzene	ND	0.0500	"	"	"	ZZZ	"	"	R-05, U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	R-05, U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	R-05, U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	R-05, U
Gasoline Range Hydrocarbons	335	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B14@20'

7/25/2024 9:32:00AM

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

Origins Laboratory, Inc.

Y407665-07 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	1.19	0.020	mg/kg	10	B4G2541	Windo	07/25/2024	07/26/2024	
2-Methylnaphthalene	3.19	0.020	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	1	"	Windo	"	07/26/2024	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.140	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.005	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130	"	"	"

pH in Soil by 9045D

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B14@20'

7/25/2024 9:32:00AM

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

Origins Laboratory, Inc.
Y407665-07 (Soil)

pH in Soil by 9045D

pH	8.18	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.518	0.268	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	35.5	9.26	"	"	"	KMC	"	"
Cadmium	ND	0.0926	"	"	"	KMC	"	"
Copper	ND	9.26	"	"	"	KMC	"	"
Lead	4.33	0.926	"	"	"	KMC	"	"
Nickel	6.11	0.926	"	"	"	KMC	"	"
Selenium	ND	0.241	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B15@20'
7/25/2024 9:36:00AM

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

Origins Laboratory, Inc.
Y407665-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4G2606	ACC	07/26/2024	07/29/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	169	25.0	mg/kg	1	B4G2501	ZZZ	07/25/2024	07/25/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2535	ZZZ	07/25/2024	07/26/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	0.00396	0.00200	"	"	"	ZZZ	"	"	
Xylenes, total	0.0131	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	141	5.00	"	25	"	ZZZ	"	07/26/2024	

Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130			"	"	07/26/2024	
Surrogate: Toluene-d8	162 %	70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B15@20'

7/25/2024 9:36:00AM

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

Origins Laboratory, Inc.

Y407665-08 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.677	0.002	mg/kg	1	B4G2541	Windo	07/25/2024	07/26/2024	
2-Methylnaphthalene	1.70	0.020	"	10	"	Windo	"	07/26/2024	
Acenaphthene	ND	0.020	"	1	"	Windo	"	07/26/2024	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.079	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	0.003	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.6 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130	"	"	"

pH in Soil by 9045D

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B15@20'

7/25/2024 9:36:00AM

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

Origins Laboratory, Inc.
Y407665-08 (Soil)

pH in Soil by 9045D

pH	8.03	pH Units	1	B4G2913	EAL	07/29/2024	07/29/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.18	0.286	mg/kg	10	B4G2539	KMC	07/25/2024	07/26/2024
Barium	33.4	9.87	"	"	"	KMC	"	"
Cadmium	ND	0.0987	"	"	"	KMC	"	"
Copper	ND	9.87	"	"	"	KMC	"	"
Lead	3.63	0.987	"	"	"	KMC	"	"
Nickel	6.32	0.987	"	"	"	KMC	"	"
Selenium	ND	0.257	"	"	"	KMC	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2501 - EPA 3550B

Blank (B4G2501-BLK1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.7	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2501 - EPA 3550B

LCS (B4G2501-BS1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2501 - EPA 3550B

Matrix Spike (B4G2501-MS1)		Source: Y407646-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
Diesel (C10-C28)	917	50.0	mg/kg	1000	ND	91.7	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2501 - EPA 3550B

Matrix Spike Dup (B4G2501-MSD1)		Source: Y407646-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
Diesel (C10-C28)	927	50.0	mg/kg	1000	ND	92.7	70-130	1.00	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	1.01	35	
Surrogate: o-Terphenyl	48		"	49.8		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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2535 - EPA 5030 (soil)										
Blank (B4G2535-BLK1)					Prepared: 07/25/2024 Analyzed: 07/25/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		123	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2535 - EPA 5030 (soil)

LCS (B4G2535-BS1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.0930	0.00200	"	0.100		93.0	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.0998	0.00200	"	0.100		99.8	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2535 - EPA 5030 (soil)

Matrix Spike (B4G2535-MS1)		Source: Y407646-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
1,2,4-Trimethylbenzene	0.0705	0.00200	mg/kg	0.100	ND	70.5	70-130			
1,3,5-Trimethylbenzene	0.0664	0.00200	"	0.100	ND	66.4	70-130			QM-07
Benzene	0.0571	0.00200	"	0.100	ND	57.1	70-130			QM-07
Ethylbenzene	0.0687	0.00200	"	0.100	ND	68.7	70-130			QM-07
Naphthalene	0.0716	0.00380	"	0.100	ND	71.6	70-130			
Toluene	0.0642	0.00200	"	0.100	ND	64.2	70-130			QM-07
o-Xylene	0.0685	0.00200	"	0.100	ND	68.5	70-130			QM-07
m,p-Xylene	0.137	0.00400	"	0.200	ND	68.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2535 - EPA 5030 (soil)

Matrix Spike Dup (B4G2535-MSD1)		Source: Y407646-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
1,2,4-Trimethylbenzene	0.0684	0.00200	mg/kg	0.100	ND	68.4	70-130	3.02	20	QM-07
1,3,5-Trimethylbenzene	0.0652	0.00200	"	0.100	ND	65.2	70-130	1.92	20	QM-07
Benzene	0.0547	0.00200	"	0.100	ND	54.7	70-130	4.40	20	QM-07
Ethylbenzene	0.0669	0.00200	"	0.100	ND	66.9	70-130	2.62	20	QM-07
Naphthalene	0.0678	0.00380	"	0.100	ND	67.8	70-130	5.57	20	QM-07
Toluene	0.0617	0.00200	"	0.100	ND	61.7	70-130	3.94	20	QM-07
o-Xylene	0.0691	0.00200	"	0.100	ND	69.1	70-130	0.930	20	QM-07
m,p-Xylene	0.136	0.00400	"	0.200	ND	67.9	70-130	0.661	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		114	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4G2539 - EPA 3050B

Blank (B4G2539-BLK1)

Prepared: 07/25/2024 Analyzed: 07/26/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"

LCS (B4G2539-BS1)

Prepared: 07/25/2024 Analyzed: 07/26/2024

Arsenic	5.27	0.290	mg/kg	5.00	105	80-120
Barium	520	10.0	"	500	104	80-120
Cadmium	5.15	0.100	"	5.00	103	80-120
Copper	56.3	10.0	"	50.0	113	80-120
Lead	5.06	1.00	"	5.00	101	80-120
Nickel	5.66	1.00	"	5.00	113	80-120
Selenium	4.96	0.260	"	5.00	99.2	80-120

Matrix Spike (B4G2539-MS1)

Source: Y407658-06

Prepared: 07/25/2024 Analyzed: 07/26/2024

Arsenic	10.9	0.269	mg/kg	4.63	5.30	122	75-125
Barium	624	9.27	"	463	106	112	75-125
Cadmium	5.43	0.0927	"	4.63	0.251	112	75-125
Copper	65.1	9.27	"	46.3	11.4	116	75-125

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
Batch B4G2539 - EPA 3050B										
Matrix Spike (B4G2539-MS1)		Source: Y407658-06			Prepared: 07/25/2024 Analyzed: 07/26/2024					
Lead	15.1	0.927	mg/kg	4.63	10.4	101	75-125			
Nickel	19.2	0.927	"	4.63	12.0	154	75-125			QM-07
Selenium	5.39	0.241	"	4.63	0.219	112	75-125			
Matrix Spike Dup (B4G2539-MSD1)		Source: Y407658-06			Prepared: 07/25/2024 Analyzed: 07/26/2024					
Arsenic	11.2	0.280	mg/kg	4.82	5.30	123	75-125	2.55	20	
Barium	623	9.64	"	482	106	107	75-125	0.152	20	
Cadmium	5.54	0.0964	"	4.82	0.251	110	75-125	1.87	20	
Copper	67.9	9.64	"	48.2	11.4	117	75-125	4.15	20	
Lead	14.8	0.964	"	4.82	10.4	90.9	75-125	2.01	20	
Nickel	18.3	0.964	"	4.82	12.0	129	75-125	4.76	20	QM-07
Selenium	5.40	0.251	"	4.82	0.219	107	75-125	0.148	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G2541 - EPA 3580

Blank (B4G2541-BLK1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

LCS (B4G2541-BS1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		94.9	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200		94.6	70-130
Acenaphthene	0.193	0.020	"	0.200		96.3	70-130
Anthracene	0.202	0.020	"	0.200		101	70-130

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G2541 - EPA 3580

LCS (B4G2541-BS1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		96.9	70-130
Benzo (a) pyrene	0.216	0.020	"	0.200		108	70-130
Benzo (b) fluoranthene	0.203	0.020	"	0.200		102	70-130
Benzo (g,h,i) perylene	0.195	0.020	"	0.200		97.6	70-130
Benzo (k) fluoranthene	0.194	0.020	"	0.200		96.9	70-130
Chrysene	0.193	0.020	"	0.200		96.4	70-130
Dibenz (a,h) anthracene	0.197	0.020	"	0.200		98.5	70-130
Fluoranthene	0.197	0.020	"	0.200		98.7	70-130
Fluorene	0.192	0.020	"	0.200		96.0	70-130
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200		94.6	70-130
Naphthalene	0.192	0.002	"	0.200		96.1	70-130
Phenanthrene	0.193	0.020	"	0.200		96.3	70-130
Pyrene	0.202	0.020	"	0.200		101	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130
Surrogate: Anthracene-d10	200		"	200		99.8	60-130
Surrogate: Pyrene-d10	200		"	200		102	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130

Matrix Spike (B4G2541-MS1)

Source: Y407665-01

Prepared: 07/25/2024 Analyzed: 07/25/2024

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	0.0005	98.3	70-130
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	98.2	70-130
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130
Anthracene	0.200	0.020	"	0.200	ND	100	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.002	98.4	70-130
Benzo (a) pyrene	0.220	0.020	"	0.200	ND	110	70-130
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.001	104	70-130
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	ND	97.5	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G2541 - EPA 3580

Matrix Spike (B4G2541-MS1)		Source: Y407665-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.3	70-130			
Chrysene	0.202	0.020	"	0.200	0.001	101	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	99.9	70-130			
Fluoranthene	0.204	0.020	"	0.200	ND	102	70-130			
Fluorene	0.197	0.020	"	0.200	ND	98.7	70-130			
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.3	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	99.1	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Pyrene	0.205	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

Matrix Spike Dup (B4G2541-MSD1)		Source: Y407665-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	0.0005	103	70-130	4.55	20	
2-Methylnaphthalene	0.205	0.002	"	0.200	ND	102	70-130	4.06	20	
Acenaphthene	0.211	0.020	"	0.200	ND	106	70-130	4.86	20	
Anthracene	0.204	0.020	"	0.200	ND	102	70-130	1.86	20	
Benzo (a) anthracene	0.211	0.005	"	0.200	0.002	104	70-130	5.93	20	
Benzo (a) pyrene	0.223	0.020	"	0.200	ND	112	70-130	1.41	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.001	109	70-130	5.20	20	
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130	6.27	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	4.49	20	
Chrysene	0.225	0.020	"	0.200	0.001	112	70-130	10.9	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	ND	102	70-130	1.83	20	
Fluoranthene	0.211	0.020	"	0.200	ND	106	70-130	3.38	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.

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G2541 - EPA 3580

Matrix Spike Dup (B4G2541-MSD1)		Source: Y407665-01			Prepared: 07/25/2024 Analyzed: 07/25/2024					
Fluorene	0.205	0.020	mg/kg	0.200	ND	102	70-130	3.72	20	
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130	4.92	20	
Naphthalene	0.205	0.002	"	0.200	ND	103	70-130	3.53	20	
Phenanthrene	0.211	0.020	"	0.200	ND	105	70-130	5.41	20	
Pyrene	0.217	0.020	"	0.200	ND	109	70-130	6.10	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.3	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G2605 - DTPA Sorbitol Preparation										
Blank (B4G2605-BLK1)					Prepared: 07/26/2024 Analyzed: 07/29/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G2605-DUP1)					Source: Y407053-05 Prepared: 07/26/2024 Analyzed: 07/29/2024					
Boron	0.145	0.101	mg/L		0.131			10.4	50	
Batch B4G2606 - DTPA Sorbitol Preparation										
Blank (B4G2606-BLK1)					Prepared: 07/26/2024 Analyzed: 07/29/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G2606-DUP1)					Source: Y407665-08 Prepared: 07/26/2024 Analyzed: 07/29/2024					
Boron	ND	0.100	mg/L		ND				50	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control

Origins Laboratory, Inc.

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

Batch B4G2913 - Saturated Paste pH/EC

Duplicate (B4G2913-DUP1)		Source: Y407652-01			Prepared: 07/29/2024 Analyzed: 07/29/2024					
pH	8.89		pH Units		8.90			0.112	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

August 16, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility****Project Number - 09A1417392**

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. July 31, 2024. This project is associated with Origins project number Y407864-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-B16@20'	Y407864-01	Soil	July 31, 2024 14:30	07/31/2024 17:30
TB01-W08@8'	Y407864-02	Soil	July 31, 2024 14:45	07/31/2024 17:30
TB01-W08@18'	Y407864-03	Soil	July 31, 2024 14:50	07/31/2024 17:30
TB01-W09@8'	Y407864-04	Soil	July 31, 2024 14:55	07/31/2024 17:30
TB01-W09@18'	Y407864-05	Soil	July 31, 2024 15:00	07/31/2024 17:30
TB01-W10@8'	Y407864-06	Soil	July 31, 2024 15:05	07/31/2024 17:30
TB01-W10@18'	Y407864-07	Soil	July 31, 2024 15:10	07/31/2024 17:30

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

ORIGINS WORK ORDER # **4407804** Page 1 of 1

ORIGINS LABORATORY INC
Client: Ensolum
Address: _____

Project Manager: Jeremy Espinoza
Project Name: PSC 15-10 FSV/24A O SA Facility
Key: W= Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

Project Number: 09A1417392
Collected By: Linda Garcia
Invoice/Billing Info: Impacted

Telephone Number: (970) 590-7134
Email Address: LMA@Ensolum

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	
1	TB01-1310 @ 10'	7/31/24	1430	3	S	UNP	X	X	X	X	X	X	X	X	X	X	down added to
2	TB01-1408 @ 8'		1445	3													all samples per
3	TB01-1408 @ 8'		1450	3													the analysis email on
4	TB01-1409 @ 9'		1455	3													1/2 pb
5	TB01-1409 @ 9'		1500	3													
6	TB01-1410 @ 10'		1505	3													
7	TB01-1410 @ 10'		1510	3													
8																	
9																	
10																	

Relinquished By: Jeremy Espinoza Date: 7-31-2024 Time: 1730
Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 7/31/24 Time: 1730
Received By: _____ Date: _____ Time: _____

Turnaround Time: ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only: **Temp Received:** 17 **Received On Ice?** ☒ Yes ☐ No

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407204

Client: Ensolum
Client Project ID: PSC 15-10 FSV

Checklist Completed by: JM/DA

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

Date/time completed: 7/31/24

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 1 / 10 °C _____ / _____ °C (Describe) _____ °C

Thermometer ID: T005

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

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

Reviewed by (Project Manager) JM

7/31/24
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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B16@20'
7/31/2024 2:30:00PM

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

Origins Laboratory, Inc.
Y407864-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	185	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	07/31/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.2 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.0147	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	94.5	5.00	"	25	"	ZZZ	"	08/01/2024	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	08/01/2024
Surrogate: Toluene-d8	167 %	70-130			"	"	" S-GC
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B16@20'
7/31/2024 2:30:00PM

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

Origins Laboratory, Inc.
Y407864-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.858	0.020	mg/kg	10	B4G3152	agile	07/31/2024	08/01/2024	
2-Methylnaphthalene	2.62	0.020	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	1	"	agile	"	08/01/2024	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.097	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	95.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-B16@20'

7/31/2024 2:30:00PM

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

Origins Laboratory, Inc.
Y407864-01 (Soil)

pH in Soil by 9045D

pH	8.00	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	ND	0.271	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	21.9	9.33	"	"	"	HJD	"	"
Cadmium	ND	0.0933	"	"	"	HJD	"	"
Lead	2.51	0.933	"	"	"	HJD	"	"
Nickel	4.49	0.933	"	"	"	HJD	"	"
Selenium	ND	0.243	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W08@8'
7/31/2024 2:45:00PM

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

Origins Laboratory, Inc.
Y407864-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W08@8'

7/31/2024 2:45:00PM

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

Origins Laboratory, Inc.
Y407864-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3152	agile	07/31/2024	08/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	89.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W08@8'

7/31/2024 2:45:00PM

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

Origins Laboratory, Inc.
Y407864-02 (Soil)

pH in Soil by 9045D

pH	8.18	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.725	0.259	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	16.4	8.92	"	"	"	HJD	"	"
Cadmium	ND	0.0892	"	"	"	HJD	"	"
Lead	2.98	0.892	"	"	"	HJD	"	"
Nickel	2.34	0.892	"	"	"	HJD	"	"
Selenium	ND	0.232	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W08@18'

7/31/2024 2:50:00PM

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

Origins Laboratory, Inc. Y407864-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	85.9 %	50-150			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	1.58	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W08@18'
7/31/2024 2:50:00PM

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

Origins Laboratory, Inc.
Y407864-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.052	0.002	mg/kg	1	B4G3152	agile	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.118	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.021	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	90.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W08@18'

7/31/2024 2:50:00PM

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

Origins Laboratory, Inc.
Y407864-03 (Soil)

pH in Soil by 9045D

pH	8.23	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.472	0.278	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	26.2	9.59	"	"	"	HJD	"	"
Cadmium	ND	0.0959	"	"	"	HJD	"	"
Lead	3.45	0.959	"	"	"	HJD	"	"
Nickel	5.26	0.959	"	"	"	HJD	"	"
Selenium	ND	0.249	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W09@8'
7/31/2024 2:55:00PM

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

Origins Laboratory, Inc.
Y407864-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	83.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W09@8'

7/31/2024 2:55:00PM

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

Origins Laboratory, Inc.
Y407864-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3152	agile	07/31/2024	08/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	92.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W09@8'

7/31/2024 2:55:00PM

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

Origins Laboratory, Inc.
Y407864-04 (Soil)

pH in Soil by 9045D

pH	8.28	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.939	0.244	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	25.3	8.40	"	"	"	HJD	"	"
Cadmium	ND	0.0840	"	"	"	HJD	"	"
Lead	3.65	0.840	"	"	"	HJD	"	"
Nickel	3.54	0.840	"	"	"	HJD	"	"
Selenium	ND	0.218	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W09@18'
7/31/2024 3:00:00PM

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

Origins Laboratory, Inc.
Y407864-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	110	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	08/01/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.9 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	109	5.00	"	25	"	ZZZ	"	08/01/2024	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	08/01/2024
Surrogate: Toluene-d8	115 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W09@18'
7/31/2024 3:00:00PM

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

Origins Laboratory, Inc.
Y407864-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.323	0.002	mg/kg	1	B4G3152	agile	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.463	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.071	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	89.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W09@18'

7/31/2024 3:00:00PM

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

Origins Laboratory, Inc.
Y407864-05 (Soil)

pH in Soil by 9045D

pH	8.30	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.401	0.271	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	26.3	9.35	"	"	"	HJD	"	"
Cadmium	ND	0.0935	"	"	"	HJD	"	"
Lead	3.27	0.935	"	"	"	HJD	"	"
Nickel	5.17	0.935	"	"	"	HJD	"	"
Selenium	ND	0.243	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W10@8'
7/31/2024 3:05:00PM

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

Origins Laboratory, Inc.
Y407864-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.232	0.0984	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	-------	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	77.9 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"

PAH by EPA 8270E

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W10@8'
7/31/2024 3:05:00PM

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

Origins Laboratory, Inc.
Y407864-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3152	agile	07/31/2024	08/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W10@8'

7/31/2024 3:05:00PM

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

Origins Laboratory, Inc.
Y407864-06 (Soil)

pH in Soil by 9045D

pH	7.82	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.06	0.262	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	81.1	9.05	"	"	"	HJD	"	"
Cadmium	ND	0.0905	"	"	"	HJD	"	"
Lead	10.4	0.905	"	"	"	HJD	"	"
Nickel	11.3	0.905	"	"	"	HJD	"	"
Selenium	ND	0.235	"	"	"	HJD	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W10@18'
7/31/2024 3:10:00PM

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

Origins Laboratory, Inc.
Y407864-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0999	mg/L	1	B4H1307	KRM	08/13/2024	08/14/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	ZZZ	07/31/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.0 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3151	ZZZ	07/31/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	2.44	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W10@18'

7/31/2024 3:10:00PM

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

Origins Laboratory, Inc.
Y407864-07 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	0.041	0.002	mg/kg	1	B4G3152	agile	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.109	0.002	"	"	"	agile	"	"	
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	0.020	0.020	"	"	"	agile	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	82.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.8 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-W10@18'

7/31/2024 3:10:00PM

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

Origins Laboratory, Inc.
Y407864-07 (Soil)

pH in Soil by 9045D

pH	4.24	pH Units	1	B4H0618	EAL	08/06/2024	08/07/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.327	0.263	mg/kg	10	B4G3155	HJD	07/31/2024	08/01/2024
Barium	11.1	9.06	"	"	"	HJD	"	"
Cadmium	ND	0.0906	"	"	"	HJD	"	"
Lead	2.26	0.906	"	"	"	HJD	"	"
Nickel	2.41	0.906	"	"	"	HJD	"	"
Selenium	ND	0.236	"	"	"	HJD	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3149 - EPA 3550B										
Blank (B4G3149-BLK1)					Prepared: 07/31/2024 Analyzed: 07/31/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.2	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3149 - EPA 3550B

LCS (B4G3149-BS1)

Prepared: 07/31/2024 Analyzed: 07/31/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3149 - EPA 3550B

Matrix Spike (B4G3149-MS1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3149 - EPA 3550B

Matrix Spike Dup (B4G3149-MSD1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	2.76	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130	2.93	35	
Surrogate: o-Terphenyl	52		"	49.8		104	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3151 - EPA 5030 (soil)										
Blank (B4G3151-BLK1)					Prepared: 07/31/2024 Analyzed: 07/31/2024					
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		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		114	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3151 - EPA 5030 (soil)

LCS (B4G3151-BS1)

Prepared: 07/31/2024 Analyzed: 07/31/2024

1,2,4-Trimethylbenzene	0.0880	0.00200	mg/kg	0.100		88.0	70-130			
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100		84.6	70-130			
Benzene	0.0818	0.00200	"	0.100		81.8	70-130			
Ethylbenzene	0.0929	0.00200	"	0.100		92.9	70-130			
Naphthalene	0.0961	0.00380	"	0.100		96.1	70-130			
Toluene	0.0848	0.00200	"	0.100		84.8	70-130			
o-Xylene	0.0850	0.00200	"	0.100		85.0	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3151 - EPA 5030 (soil)

Matrix Spike (B4G3151-MS1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
1,2,4-Trimethylbenzene	0.0787	0.00200	mg/kg	0.100	ND	78.7	70-130			
1,3,5-Trimethylbenzene	0.0754	0.00200	"	0.100	ND	75.4	70-130			
Benzene	0.0723	0.00200	"	0.100	ND	72.3	70-130			
Ethylbenzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Naphthalene	0.0854	0.00380	"	0.100	ND	85.4	70-130			
Toluene	0.0766	0.00200	"	0.100	ND	76.6	70-130			
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4G3151 - EPA 5030 (soil)

Matrix Spike Dup (B4G3151-MSD1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
1,2,4-Trimethylbenzene	0.0859	0.00200	mg/kg	0.100	ND	85.9	70-130	8.77	20	
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	9.52	20	
Benzene	0.0764	0.00200	"	0.100	ND	76.4	70-130	5.51	20	
Ethylbenzene	0.0930	0.00200	"	0.100	ND	93.0	70-130	11.1	20	
Naphthalene	0.0964	0.00380	"	0.100	ND	96.4	70-130	12.1	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	5.76	20	
o-Xylene	0.0934	0.00200	"	0.100	ND	93.4	70-130	11.5	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.6	70-130	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4G3155 - EPA 3050B

Blank (B4G3155-BLK1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4G3155-BS1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

Arsenic	4.95	0.290	mg/kg	5.00	99.0	80-120
Barium	499	10.0	"	500	99.8	80-120
Cadmium	5.13	0.100	"	5.00	103	80-120
Copper	51.6	10.0	"	50.0	103	80-120
Lead	4.96	1.00	"	5.00	99.2	80-120
Nickel	5.22	1.00	"	5.00	104	80-120
Selenium	4.76	0.260	"	5.00	95.1	80-120
Silver	5.15	0.100	"	5.00	103	80-120
Zinc	49.8	37.0	"	50.0	99.6	80-120

Matrix Spike (B4G3155-MS1)

Source: Y407864-01

Prepared: 07/31/2024 Analyzed: 08/01/2024

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4G3155 - EPA 3050B

Matrix Spike (B4G3155-MS1)		Source: Y407864-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Arsenic	5.11	0.288	mg/kg	4.96	0.206	98.7	75-125			
Barium	530	9.93	"	496	21.9	102	75-125			
Cadmium	5.14	0.0993	"	4.96	0.0233	103	75-125			
Copper	58.7	9.93	"	49.6	4.79	109	75-125			
Lead	7.63	0.993	"	4.96	2.51	103	75-125			
Nickel	10.5	0.993	"	4.96	4.49	121	75-125			
Selenium	4.86	0.258	"	4.96	0.0625	96.6	75-125			
Silver	5.19	0.0993	"	4.96	0.0112	104	75-125			
Zinc	64.4	36.7	"	49.6	13.6	102	75-125			
Matrix Spike Dup (B4G3155-MSD1)		Source: Y407864-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Arsenic	4.39	0.265	mg/kg	4.57	0.206	91.5	75-125	15.2	20	
Barium	454	9.14	"	457	21.9	94.5	75-125	15.6	20	
Cadmium	4.61	0.0914	"	4.57	0.0233	100	75-125	11.0	20	
Copper	49.8	9.14	"	45.7	4.79	98.5	75-125	16.3	20	
Lead	6.56	0.914	"	4.57	2.51	88.7	75-125	15.0	20	
Nickel	8.86	0.914	"	4.57	4.49	95.5	75-125	17.0	20	
Selenium	4.30	0.238	"	4.57	0.0625	92.8	75-125	12.1	20	
Silver	4.59	0.0914	"	4.57	0.0112	100	75-125	12.2	20	
Zinc	55.8	33.8	"	45.7	13.6	92.3	75-125	14.3	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G3152 - EPA 3580

Blank (B4G3152-BLK1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

LCS (B4G3152-BS1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200		92.7	70-130
2-Methylnaphthalene	0.180	0.002	"	0.200		90.2	70-130
Acenaphthene	0.197	0.020	"	0.200		98.3	70-130
Anthracene	0.163	0.020	"	0.200		81.4	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G3152 - EPA 3580

LCS (B4G3152-BS1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		91.9	70-130
Benzo (a) pyrene	0.201	0.020	"	0.200		100	70-130
Benzo (b) fluoranthene	0.238	0.020	"	0.200		119	70-130
Benzo (g,h,i) perylene	0.208	0.020	"	0.200		104	70-130
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130
Chrysene	0.209	0.020	"	0.200		105	70-130
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		94.9	70-130
Fluoranthene	0.197	0.020	"	0.200		98.7	70-130
Fluorene	0.197	0.020	"	0.200		98.3	70-130
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200		116	70-130
Naphthalene	0.187	0.002	"	0.200		93.5	70-130
Phenanthrene	0.188	0.020	"	0.200		94.1	70-130
Pyrene	0.189	0.020	"	0.200		94.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130
Surrogate: Anthracene-d10	190		"	200		93.2	60-130
Surrogate: Pyrene-d10	190		"	200		94.5	60-130
Surrogate: Benzo (a) pyrene-d12	220		"	200		111	60-130

Matrix Spike (B4G3152-MS1)

Source: Y407864-02

Prepared: 07/31/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200	0.0004	89.6	70-130
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	93.0	70-130
Acenaphthene	0.177	0.020	"	0.200	ND	88.7	70-130
Anthracene	0.169	0.020	"	0.200	0.003	83.1	70-130
Benzo (a) anthracene	0.197	0.005	"	0.200	0.001	97.9	70-130
Benzo (a) pyrene	0.222	0.020	"	0.200	0.003	109	70-130
Benzo (b) fluoranthene	0.232	0.020	"	0.200	0.002	115	70-130
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	0.004	97.9	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G3152 - EPA 3580

Matrix Spike (B4G3152-MS1)		Source: Y407864-02			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Benzo (k) fluoranthene	0.217	0.020	mg/kg	0.200	0.002	107	70-130			
Chrysene	0.188	0.020	"	0.200	0.002	92.9	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	0.004	93.9	70-130			
Fluoranthene	0.223	0.020	"	0.200	0.001	111	70-130			
Fluorene	0.152	0.020	"	0.200	0.002	74.9	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.004	102	70-130			
Naphthalene	0.184	0.002	"	0.200	ND	92.1	70-130			
Phenanthrene	0.184	0.020	"	0.200	0.0006	91.9	70-130			
Pyrene	0.211	0.020	"	0.200	0.001	105	70-130			
Surrogate: Fluorene-d10	160		ug/kg	200		78.1	60-130			
Surrogate: Anthracene-d10	170		"	200		84.9	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		109	60-130			

Matrix Spike Dup (B4G3152-MSD1)		Source: Y407864-02			Prepared: 07/31/2024 Analyzed: 08/01/2024					
1-Methylnaphthalene	0.167	0.002	mg/kg	0.200	0.0004	83.5	70-130	7.00	20	
2-Methylnaphthalene	0.170	0.002	"	0.200	ND	85.0	70-130	9.05	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.4	70-130	7.31	20	
Anthracene	0.181	0.020	"	0.200	0.003	89.1	70-130	6.83	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	0.001	99.5	70-130	1.59	20	
Benzo (a) pyrene	0.239	0.020	"	0.200	0.003	118	70-130	7.54	20	
Benzo (b) fluoranthene	0.258	0.020	"	0.200	0.002	128	70-130	10.6	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.004	106	70-130	7.93	20	
Benzo (k) fluoranthene	0.265	0.020	"	0.200	0.002	131	70-130	19.9	20	QM-07
Chrysene	0.206	0.020	"	0.200	0.002	102	70-130	9.09	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	0.004	94.4	70-130	0.547	20	
Fluoranthene	0.250	0.020	"	0.200	0.001	124	70-130	11.6	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4G3152 - EPA 3580

Matrix Spike Dup (B4G3152-MSD1)		Source: Y407864-02			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Fluorene	0.184	0.020	mg/kg	0.200	0.002	90.9	70-130	19.1	20	
Indeno (1,2,3-cd) pyrene	0.245	0.020	"	0.200	0.004	121	70-130	16.7	20	
Naphthalene	0.187	0.002	"	0.200	ND	93.3	70-130	1.27	20	
Phenanthrene	0.190	0.020	"	0.200	0.0006	94.8	70-130	3.14	20	
Pyrene	0.226	0.020	"	0.200	0.001	112	70-130	6.82	20	
Surrogate: Fluorene-d10	190		ug/kg	200		92.8	60-130			
Surrogate: Anthracene-d10	190		"	200		96.3	60-130			
Surrogate: Pyrene-d10	240		"	200		118	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H1307 - DTPA Sorbitol Preparation										
Blank (B4H1307-BLK1)					Prepared: 08/13/2024 Analyzed: 08/14/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4H1307-DUP1)					Source: Y407060-01 Prepared: 08/13/2024 Analyzed: 08/14/2024					
Boron	0.149	0.100	mg/L		0.133			11.5	50	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control

Origins Laboratory, Inc.

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

Batch B4H0618 - Saturated Paste pH/EC

Duplicate (B4H0618-DUP1)

Source: Y407842-06

Prepared: 08/06/2024 Analyzed: 08/07/2024

pH	8.49		pH Units	8.41		0.947	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

August 12, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - PSC 15-10 FSV, 24A&4 O
SA Facility****Project Number - 09A1417392**

Attached are your analytical results for KMG - PSC 15-10 FSV, 24A&4 O SA Facility received by Origins Laboratory, Inc. August 01, 2024. This project is associated with Origins project number Y408035-01.

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB01-N06@8'	Y408035-01	Soil	August 1, 2024 9:30	08/01/2024 16:21
TB01-N06@18'	Y408035-02	Soil	August 1, 2024 9:35	08/01/2024 16:21
TB01-N07@8'	Y408035-03	Soil	August 1, 2024 9:40	08/01/2024 16:21
TB01-N07@18'	Y408035-04	Soil	August 1, 2024 9:45	08/01/2024 16:21
TB01-N08@8'	Y408035-05	Soil	August 1, 2024 9:50	08/01/2024 16:21
TB01-N08@18'	Y408035-06	Soil	August 1, 2024 9:55	08/01/2024 16:21
TB01-N09@8'	Y408035-07	Soil	August 1, 2024 10:00	08/01/2024 16:21
TB01-N09@18'	Y408035-08	Soil	August 1, 2024 10:05	08/01/2024 16:21
TB01-E10@8'	Y408035-09	Soil	August 1, 2024 10:10	08/01/2024 16:21
TB01-E10@18'	Y408035-10	Soil	August 1, 2024 10:15	08/01/2024 16:21
TB01-E11@8'	Y408035-11	Soil	August 1, 2024 10:20	08/01/2024 16:21
TB01-E11@18'	Y408035-12	Soil	August 1, 2024 10:25	08/01/2024 16:21
TB01-E12@8'	Y408035-13	Soil	August 1, 2024 10:30	08/01/2024 16:21
TB01-E12@18'	Y408035-14	Soil	August 1, 2024 10:35	08/01/2024 16:21

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA
Facility

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Page 1 of 2

ORIGINS WORK ORDER # 4401035

ORIGINS LABORATORY INC

Client: Ensolum

Address:

Project Manager: Jeremy Espinoza

Project Name: 09A1417392

Project Number: 09A1417392

Collected By: Kendra Corcus

Invoice/Billing Info: Impacted

Telephone Number: (970) 590-2154

Email Address: kmc@ensolum.com

Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							BTEX	THM	PH	PHH	As	Pb	NI	SE			
1	TB01-N000@8'	8/1/24	0930	3	5	UNP	X	X	X	X	X	X	X	X	Boron added to all samples per Hannah's email on 8/5/24		
2	TB01-N000@18'		0935														
3	TB01-N001@8'		0940														
4	TB01-N007@6'		0945														
5	TB01-N008@8'		0950														
6	TB01-N008@13'		0955														
7	TB01-N009@8'		1000														
8	TB01-N009@18'		1005														
9	TB01-E10@8'		1010														
10	TB01-E10@13'		1015														

Relinquished By: [Signature] Date: 8/1/24 Time: 1021

Relinquished By: [Signature] Date: 8/1/24 Time: 1021

Received By: [Signature] Date: 8/1/24 Time: 1021

Received By: [Signature] Date: 8/1/24 Time: 1021

Turnaround Time: ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard ☐ Yes ☐ No

Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only: Temp Received - C

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | origins@lab.com

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Page 2 of 2

ORIGINS WORK ORDER #

ORIGINS
LABORATORY INC

Client: Ensolum

Address:

Project Manager: Jeremy Espinoza

Key:

W= Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

L=Liquid

Project Name: PSC 15-10 FSV/44th OSA Facility

Project Number: 09A1417392

Collected By: Lendra Corrao

Invoice/Billing Info: Invoiced

Telephone Number: (720) 505 2134

Email Address: kmg@team

S=Soil | SQ=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
							TEX	PH	PH	PH	PH	PH	PH	PH	PH	PH	
1	TB01-E1108	8/1/24	1020	3	S	UNP	X	X	X	X	X	X	X	X	X	X	
2	TB01-E1108		1025														
3	TB01-E1208		1030														
4	TB01-E1208		1035														
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished By:	Date:	Received By:	Date:	Turnaround Time
<i>[Signature]</i>	8/1/24	<i>[Signature]</i>	8/1/24	<input checked="" type="checkbox"/> SAME DAY
Relinquished By:	Date:	Received By:	Date:	<input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr
				<input type="checkbox"/> Standard

For Lab Sample Receiving Only:

Temp Received: ☒ Received On Ice? ☒ Yes ☐ No

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory, Inc.

[Signature]

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1408035

Client: Ensolum

Client Project ID: PSC 15-10 FSV

Checklist Completed by: EHO

Shipped Via: HO

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

Date/time completed: 8/1/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 0 Soil/Solid

Water

Other:

Cooler Number/Temperature: 115 °C / 1 °C / 1 °C / 1 °C (Describe)

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) EHO

8/1/12
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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N06@8'

8/1/2024 9:30:00AM

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

Origins Laboratory, Inc.
Y408035-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N06@8'

8/1/2024 9:30:00AM

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

Origins Laboratory, Inc.
Y408035-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	0.028	0.020	"	"	"	agile	"	"	
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	81.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	108 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	94.4 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N06@8'

8/1/2024 9:30:00AM

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

Origins Laboratory, Inc.
Y408035-01 (Soil)

pH in Soil by 9045D

pH	7.25	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.422	0.278	mg/kg	10	B4H0137	ACN	08/01/2024	08/02/2024
Barium	15.9	9.59	"	"	"	ACN	"	"
Cadmium	ND	0.0959	"	"	"	ACN	"	"
Lead	2.42	0.959	"	"	"	ACN	"	"
Nickel	1.34	0.959	"	"	"	ACN	"	"
Selenium	ND	0.249	"	"	"	ACN	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N06@18'
8/1/2024 9:35:00AM

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

Origins Laboratory, Inc.
Y408035-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	93.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N06@18'

8/1/2024 9:35:00AM

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

Origins Laboratory, Inc.
Y408035-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	90.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	110 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N06@18'

8/1/2024 9:35:00AM

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

Origins Laboratory, Inc.
Y408035-02 (Soil)

pH in Soil by 9045D

pH	4.32	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.465	0.284	mg/kg	10	B4H0137	ACN	08/01/2024	08/02/2024
Barium	25.1	9.79	"	"	"	ACN	"	"
Cadmium	ND	0.0979	"	"	"	ACN	"	"
Lead	4.09	0.979	"	"	"	ACN	"	"
Nickel	4.59	0.979	"	"	"	ACN	"	"
Selenium	ND	0.255	"	"	"	ACN	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N07@8'

8/1/2024 9:40:00AM

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

Origins Laboratory, Inc.
Y408035-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	81.5 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N07@8'

8/1/2024 9:40:00AM

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

Origins Laboratory, Inc.
Y408035-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	90.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.5 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N07@8'

8/1/2024 9:40:00AM

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

Origins Laboratory, Inc.
Y408035-03 (Soil)

pH in Soil by 9045D

pH	8.50	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.784	0.252	mg/kg	10	B4H0137	ACN	08/01/2024	08/02/2024
Barium	28.4	8.68	"	"	"	ACN	"	"
Cadmium	ND	0.0868	"	"	"	ACN	"	"
Lead	3.88	0.868	"	"	"	ACN	"	"
Nickel	3.62	0.868	"	"	"	ACN	"	"
Selenium	ND	0.226	"	"	"	ACN	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N07@18'
8/1/2024 9:45:00AM

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

Origins Laboratory, Inc.
Y408035-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	89.4 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N07@18'

8/1/2024 9:45:00AM

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

Origins Laboratory, Inc.
Y408035-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	86.2 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N07@18'

8/1/2024 9:45:00AM

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

Origins Laboratory, Inc.
Y408035-04 (Soil)

pH in Soil by 9045D

pH	4.33	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.529	0.252	mg/kg	10	B4H0137	ACN	08/01/2024	08/02/2024
Barium	22.6	8.70	"	"	"	ACN	"	"
Cadmium	ND	0.0870	"	"	"	ACN	"	"
Lead	3.62	0.870	"	"	"	ACN	"	"
Nickel	5.24	0.870	"	"	"	ACN	"	"
Selenium	ND	0.226	"	"	"	ACN	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N08@8'

8/1/2024 9:50:00AM

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

Origins Laboratory, Inc.
Y408035-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	95.9 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N08@8'

8/1/2024 9:50:00AM

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

Origins Laboratory, Inc.
Y408035-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	85.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	116 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N08@8'

8/1/2024 9:50:00AM

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

Origins Laboratory, Inc.
Y408035-05 (Soil)

pH in Soil by 9045D

pH	7.99	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.07	0.268	mg/kg	10	B4H0137	ACN	08/01/2024	08/02/2024
Barium	23.1	9.24	"	"	"	ACN	"	"
Cadmium	ND	0.0924	"	"	"	ACN	"	"
Lead	3.83	0.924	"	"	"	ACN	"	"
Nickel	3.89	0.924	"	"	"	ACN	"	"
Selenium	ND	0.240	"	"	"	ACN	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N08@18'
8/1/2024 9:55:00AM

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

Origins Laboratory, Inc.
Y408035-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N08@18'

8/1/2024 9:55:00AM

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

Origins Laboratory, Inc.
Y408035-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	84.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N08@18'

8/1/2024 9:55:00AM

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

Origins Laboratory, Inc.
Y408035-06 (Soil)

pH in Soil by 9045D

pH	4.14	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.486	0.249	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	23.1	8.59	"	"	"	KMC	"	"
Cadmium	ND	0.0859	"	"	"	KMC	"	"
Lead	3.76	0.859	"	"	"	KMC	"	"
Nickel	5.56	0.859	"	"	"	KMC	"	"
Selenium	ND	0.223	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N09@8'
8/1/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y408035-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0990	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/01/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N09@8'
8/1/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y408035-07 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	91.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.7 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N09@8'

8/1/2024 10:00:00AM

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

Origins Laboratory, Inc.
Y408035-07 (Soil)

pH in Soil by 9045D

pH	6.36	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.69	0.243	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	57.2	8.38	"	"	"	KMC	"	"
Cadmium	ND	0.0838	"	"	"	KMC	"	"
Lead	5.85	0.838	"	"	"	KMC	"	"
Nickel	6.21	0.838	"	"	"	KMC	"	"
Selenium	ND	0.218	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N09@18'
8/1/2024 10:05:00AM

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

Origins Laboratory, Inc.
Y408035-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/01/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.2 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N09@18'
8/1/2024 10:05:00AM

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

Origins Laboratory, Inc.
Y408035-08 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	88.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	112 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-N09@18'

8/1/2024 10:05:00AM

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

Origins Laboratory, Inc.
Y408035-08 (Soil)

pH in Soil by 9045D

pH	3.93	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.564	0.274	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	26.1	9.44	"	"	"	KMC	"	"
Cadmium	ND	0.0944	"	"	"	KMC	"	"
Lead	4.05	0.944	"	"	"	KMC	"	"
Nickel	5.64	0.944	"	"	"	KMC	"	"
Selenium	ND	0.246	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E10@8'
8/1/2024 10:10:00AM

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

Origins Laboratory, Inc.
Y408035-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0986	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	94.7 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E10@8'

8/1/2024 10:10:00AM

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

Origins Laboratory, Inc.
Y408035-09 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	90.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.3 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E10@8'

8/1/2024 10:10:00AM

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

Origins Laboratory, Inc.
Y408035-09 (Soil)

pH in Soil by 9045D

pH	7.28	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	ND	0.283	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	ND	9.76	"	"	"	KMC	"	"
Cadmium	ND	0.0976	"	"	"	KMC	"	"
Lead	1.08	0.976	"	"	"	KMC	"	"
Nickel	ND	0.976	"	"	"	KMC	"	"
Selenium	ND	0.254	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E10@18'
8/1/2024 10:15:00AM

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

Origins Laboratory, Inc.
Y408035-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	86.6 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E10@18'
8/1/2024 10:15:00AM

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

Origins Laboratory, Inc.
Y408035-10 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	86.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	111 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E10@18'

8/1/2024 10:15:00AM

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

Origins Laboratory, Inc.
Y408035-10 (Soil)

pH in Soil by 9045D

pH	4.87	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.369	0.255	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	20.0	8.79	"	"	"	KMC	"	"
Cadmium	ND	0.0879	"	"	"	KMC	"	"
Lead	2.62	0.879	"	"	"	KMC	"	"
Nickel	4.22	0.879	"	"	"	KMC	"	"
Selenium	ND	0.228	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E11@8'
8/1/2024 10:20:00AM

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

Origins Laboratory, Inc.
Y408035-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	88.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E11@8'

8/1/2024 10:20:00AM

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

Origins Laboratory, Inc.
Y408035-11 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	95.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	106 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E11@8'

8/1/2024 10:20:00AM

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

Origins Laboratory, Inc.
Y408035-11 (Soil)

pH in Soil by 9045D

pH	6.40	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.373	0.255	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	15.0	8.79	"	"	"	KMC	"	"
Cadmium	ND	0.0879	"	"	"	KMC	"	"
Lead	2.73	0.879	"	"	"	KMC	"	"
Nickel	1.28	0.879	"	"	"	KMC	"	"
Selenium	ND	0.229	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E11@18'
8/1/2024 10:25:00AM

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

Origins Laboratory, Inc.
Y408035-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B4H0606	ACC	08/06/2024	08/08/2024	
-------	----	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

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

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E11@18'
8/1/2024 10:25:00AM

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

Origins Laboratory, Inc.
Y408035-12 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	89.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E11@18'

8/1/2024 10:25:00AM

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

Origins Laboratory, Inc.
Y408035-12 (Soil)

pH in Soil by 9045D

pH	4.07	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.371	0.257	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	26.4	8.86	"	"	"	KMC	"	"
Cadmium	ND	0.0886	"	"	"	KMC	"	"
Lead	3.27	0.886	"	"	"	KMC	"	"
Nickel	4.90	0.886	"	"	"	KMC	"	"
Selenium	ND	0.230	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E12@8'
8/1/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y408035-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4H0607	ACC	08/06/2024	08/08/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/02/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	92.1 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E12@8'

8/1/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y408035-13 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	84.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	95.5 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E12@8'

8/1/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y408035-13 (Soil)

pH in Soil by 9045D

pH	7.13	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	1.68	0.281	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	14.5	9.69	"	"	"	KMC	"	"
Cadmium	ND	0.0969	"	"	"	KMC	"	"
Lead	1.70	0.969	"	"	"	KMC	"	"
Nickel	1.12	0.969	"	"	"	KMC	"	"
Selenium	ND	0.252	"	"	"	KMC	"	"

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E12@18'
8/1/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y408035-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4H0607	ACC	08/06/2024	08/08/2024	
-------	----	-------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	32.7	25.0	mg/kg	1	B4H0148	ZZZ	08/01/2024	08/02/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	103 %	50-150			"	"	"	
------------------------	-------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4H0150	ZZZ	08/01/2024	08/02/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"	

PAH by EPA 8270E

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E12@18'

8/1/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y408035-14 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4H0143	agile	08/01/2024	08/02/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	U
Acenaphthene	ND	0.020	"	"	"	agile	"	"	U
Anthracene	ND	0.020	"	"	"	agile	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	agile	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	agile	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Chrysene	ND	0.020	"	"	"	agile	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agile	"	"	U
Fluoranthene	ND	0.020	"	"	"	agile	"	"	U
Fluorene	ND	0.020	"	"	"	agile	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agile	"	"	U
Naphthalene	ND	0.002	"	"	"	agile	"	"	U
Pyrene	ND	0.020	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	93.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.6 %	60-130	"	"	"
Surrogate: Pyrene-d10	107 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

TB01-E12@18'

8/1/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y408035-14 (Soil)

pH in Soil by 9045D

pH	3.69	pH Units	1	B4H0718	EAL	08/07/2024	08/08/2024
----	------	----------	---	---------	-----	------------	------------

Table 915 metals by EPA 6020B

Arsenic	0.593	0.248	mg/kg	10	B4H0142	KMC	08/01/2024	08/02/2024
Barium	34.9	8.54	"	"	"	KMC	"	"
Cadmium	ND	0.0854	"	"	"	KMC	"	"
Lead	3.91	0.854	"	"	"	KMC	"	"
Nickel	5.71	0.854	"	"	"	KMC	"	"
Selenium	ND	0.222	"	"	"	KMC	"	"

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0148 - EPA 3550B										
Blank (B4H0148-BLK1)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.5	50-150			

Origins Laboratory, Inc.



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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0148 - EPA 3550B

LCS (B4H0148-BS1)

Prepared: 08/01/2024 Analyzed: 08/01/2024

Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1220	200	"	1000		122	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0148 - EPA 3550B

Matrix Spike (B4H0148-MS1)		Source: Y408035-01			Prepared: 08/01/2024 Analyzed: 08/01/2024					
Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000	ND	128	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.3	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0148 - EPA 3550B

Matrix Spike Dup (B4H0148-MSD1)		Source: Y408035-01			Prepared: 08/01/2024 Analyzed: 08/01/2024					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	ND	116	70-130	1.63	35	
Residual Range Organics (C28-C40)	1290	200	"	1000	ND	129	70-130	0.613	35	
Surrogate: o-Terphenyl	46		"	49.8		92.3	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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0150 - EPA 5030 (soil)										
Blank (B4H0150-BLK1)					Prepared: 08/01/2024 Analyzed: 08/01/2024					
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		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0150 - EPA 5030 (soil)

LCS (B4H0150-BS1)

Prepared: 08/01/2024 Analyzed: 08/01/2024

1,2,4-Trimethylbenzene	0.0879	0.00200	mg/kg	0.100		87.9	70-130			
1,3,5-Trimethylbenzene	0.0876	0.00200	"	0.100		87.6	70-130			
Benzene	0.0861	0.00200	"	0.100		86.1	70-130			
Ethylbenzene	0.0962	0.00200	"	0.100		96.2	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0150 - EPA 5030 (soil)

Matrix Spike (B4H0150-MS1)		Source: Y408035-01			Prepared: 08/01/2024 Analyzed: 08/01/2024					
1,2,4-Trimethylbenzene	0.0852	0.00200	mg/kg	0.100	ND	85.2	70-130			
1,3,5-Trimethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130			
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
o-Xylene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0150 - EPA 5030 (soil)										
Matrix Spike Dup (B4H0150-MSD1)	Source: Y408035-01				Prepared: 08/01/2024 Analyzed: 08/01/2024					
1,2,4-Trimethylbenzene	0.0894	0.00200	mg/kg	0.100	ND	89.4	70-130	4.83	20	
1,3,5-Trimethylbenzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	1.52	20	
Benzene	0.0904	0.00200	"	0.100	ND	90.4	70-130	7.22	20	
Ethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130	2.03	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	6.35	20	
Toluene	0.0924	0.00200	"	0.100	ND	92.4	70-130	3.73	20	
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130	1.88	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.0	70-130	2.58	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4H0137 - EPA 3050B

Blank (B4H0137-BLK1)

Prepared: 08/01/2024 Analyzed: 08/02/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"

LCS (B4H0137-BS1)

Prepared: 08/01/2024 Analyzed: 08/02/2024

Arsenic	5.59	0.290	mg/kg	5.00	112	80-120
Barium	583	10.0	"	500	117	80-120
Cadmium	5.75	0.100	"	5.00	115	80-120
Lead	5.29	1.00	"	5.00	106	80-120
Nickel	5.88	1.00	"	5.00	118	80-120
Selenium	5.65	0.260	"	5.00	113	80-120

Matrix Spike (B4H0137-MS1)

Source: Y408032-03

Prepared: 08/01/2024 Analyzed: 08/02/2024

Arsenic	7.80	0.254	mg/kg	4.38	3.66	94.6	75-125
Barium	591	8.75	"	438	143	102	75-125
Cadmium	4.67	0.0875	"	4.38	0.187	102	75-125
Lead	13.4	0.875	"	4.38	8.70	108	75-125
Nickel	17.4	0.875	"	4.38	13.0	98.8	75-125
Selenium	4.75	0.228	"	4.38	0.186	104	75-125

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: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4H0137 - EPA 3050B

Matrix Spike Dup (B4H0137-MSD1)				Source: Y408032-03		Prepared: 08/01/2024 Analyzed: 08/02/2024				
Arsenic	9.34	0.270	mg/kg	4.65	3.66	122	75-125	17.9	20	
Barium	717	9.30	"	465	143	123	75-125	19.4	20	
Cadmium	5.34	0.0930	"	4.65	0.187	111	75-125	13.5	20	
Lead	14.8	0.930	"	4.65	8.70	130	75-125	9.49	20	QM-07
Nickel	21.1	0.930	"	4.65	13.0	173	75-125	19.4	20	QM-07
Selenium	5.27	0.242	"	4.65	0.186	109	75-125	10.4	20	

Batch B4H0142 - EPA 3050B

Blank (B4H0142-BLK1)				Prepared: 08/01/2024 Analyzed: 08/02/2024						
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							

LCS (B4H0142-BS1)

				Prepared: 08/01/2024 Analyzed: 08/02/2024						
Arsenic	4.92	0.290	mg/kg	5.00		98.4	80-120			
Barium	489	10.0	"	500		97.9	80-120			
Cadmium	5.31	0.100	"	5.00		106	80-120			
Lead	4.87	1.00	"	5.00		97.4	80-120			
Nickel	5.07	1.00	"	5.00		101	80-120			
Selenium	5.29	0.260	"	5.00		106	80-120			

Matrix Spike (B4H0142-MS1)

				Source: Y408034-01		Prepared: 08/01/2024 Analyzed: 08/02/2024				
Arsenic	5.50	0.273	mg/kg	4.71	1.16	92.0	75-125			
Barium	472	9.41	"	471	42.6	91.2	75-125			

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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4H0142 - EPA 3050B

Matrix Spike (B4H0142-MS1)		Source: Y408034-01			Prepared: 08/01/2024 Analyzed: 08/02/2024					
Cadmium	4.66	0.0941	"	4.71	0.0447	98.2	75-125			
Lead	7.27	0.941	"	4.71	3.38	82.6	75-125			
Nickel	7.80	0.941	"	4.71	3.62	88.9	75-125			
Selenium	4.58	0.245	"	4.71	ND	97.3	75-125			
Matrix Spike Dup (B4H0142-MSD1)		Source: Y408034-01			Prepared: 08/01/2024 Analyzed: 08/02/2024					
Arsenic	5.94	0.259	mg/kg	4.46	1.16	107	75-125	7.68	20	
Barium	529	8.93	"	446	42.6	109	75-125	11.5	20	
Cadmium	4.99	0.0893	"	4.46	0.0447	111	75-125	6.81	20	
Lead	8.13	0.893	"	4.46	3.38	106	75-125	11.2	20	
Nickel	8.69	0.893	"	4.46	3.62	114	75-125	10.7	20	
Selenium	5.03	0.232	"	4.46	ND	113	75-125	9.28	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4H0143 - EPA 3580

Blank (B4H0143-BLK1)

Prepared: 08/01/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		94.6	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			

LCS (B4H0143-BS1)

Prepared: 08/01/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200		92.9	70-130
2-Methylnaphthalene	0.189	0.002	"	0.200		94.4	70-130
Acenaphthene	0.195	0.020	"	0.200		97.3	70-130
Anthracene	0.175	0.020	"	0.200		87.7	70-130

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4H0143 - EPA 3580

LCS (B4H0143-BS1)

Prepared: 08/01/2024 Analyzed: 08/01/2024

Benzo (a) anthracene	0.204	0.005	mg/kg	0.200		102	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130
Benzo (b) fluoranthene	0.229	0.020	"	0.200		114	70-130
Benzo (g,h,i) perylene	0.186	0.020	"	0.200		93.1	70-130
Benzo (k) fluoranthene	0.214	0.020	"	0.200		107	70-130
Chrysene	0.199	0.020	"	0.200		99.4	70-130
Dibenz (a,h) anthracene	0.166	0.020	"	0.200		83.1	70-130
Fluoranthene	0.206	0.020	"	0.200		103	70-130
Fluorene	0.180	0.020	"	0.200		90.0	70-130
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200		113	70-130
Naphthalene	0.196	0.002	"	0.200		97.8	70-130
Phenanthrene	0.197	0.020	"	0.200		98.4	70-130
Pyrene	0.199	0.020	"	0.200		99.4	70-130
Surrogate: Fluorene-d10	180		ug/kg	200		91.1	60-130
Surrogate: Anthracene-d10	200		"	200		100	60-130
Surrogate: Pyrene-d10	200		"	200		101	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.8	60-130

Matrix Spike (B4H0143-MS1)

Source: Y408035-01

Prepared: 08/01/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	0.176	0.002	mg/kg	0.200	0.0007	87.7	70-130
2-Methylnaphthalene	0.177	0.002	"	0.200	0.001	87.9	70-130
Acenaphthene	0.193	0.020	"	0.200	ND	96.4	70-130
Anthracene	0.169	0.020	"	0.200	ND	84.5	70-130
Benzo (a) anthracene	0.181	0.005	"	0.200	0.004	88.6	70-130
Benzo (a) pyrene	0.200	0.020	"	0.200	0.008	96.0	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.007	104	70-130
Benzo (g,h,i) perylene	0.175	0.020	"	0.200	0.015	80.0	70-130

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4H0143 - EPA 3580

Matrix Spike (B4H0143-MS1)		Source: Y408035-01			Prepared: 08/01/2024 Analyzed: 08/01/2024					
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.009	90.0	70-130			
Chrysene	0.192	0.020	"	0.200	0.005	93.7	70-130			
Dibenz (a,h) anthracene	0.144	0.020	"	0.200	0.028	57.9	70-130			QM-07
Fluoranthene	0.223	0.020	"	0.200	0.004	109	70-130			
Fluorene	0.180	0.020	"	0.200	0.0005	89.7	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	0.020	90.0	70-130			
Naphthalene	0.189	0.002	"	0.200	ND	94.4	70-130			
Phenanthrene	0.192	0.020	"	0.200	0.002	95.2	70-130			
Pyrene	0.203	0.020	"	0.200	0.003	99.8	70-130			
Surrogate: Fluorene-d10	180		ug/kg	200		90.3	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.2	60-130			

Matrix Spike Dup (B4H0143-MSD1)		Source: Y408035-01			Prepared: 08/01/2024 Analyzed: 08/01/2024					
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0007	92.6	70-130	5.42	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	0.001	91.3	70-130	3.77	20	
Acenaphthene	0.201	0.020	"	0.200	ND	101	70-130	4.26	20	
Anthracene	0.191	0.020	"	0.200	ND	95.5	70-130	12.2	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.004	92.7	70-130	4.45	20	
Benzo (a) pyrene	0.224	0.020	"	0.200	0.008	108	70-130	11.1	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.007	106	70-130	2.49	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	0.015	85.9	70-130	6.52	20	
Benzo (k) fluoranthene	0.217	0.020	"	0.200	0.009	104	70-130	14.0	20	
Chrysene	0.194	0.020	"	0.200	0.005	94.5	70-130	0.818	20	
Dibenz (a,h) anthracene	0.166	0.020	"	0.200	0.028	68.8	70-130	14.0	20	QM-07
Fluoranthene	0.200	0.020	"	0.200	0.004	98.1	70-130	10.8	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.

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4H0143 - EPA 3580

Matrix Spike Dup (B4H0143-MSD1)		Source: Y408035-01			Prepared: 08/01/2024 Analyzed: 08/01/2024					
Fluorene	0.214	0.020	mg/kg	0.200	0.0005	107	70-130	17.1	20	
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200	0.020	100	70-130	9.78	20	
Naphthalene	0.190	0.002	"	0.200	ND	94.9	70-130	0.461	20	
Phenanthrene	0.193	0.020	"	0.200	0.002	95.6	70-130	0.449	20	
Pyrene	0.196	0.020	"	0.200	0.003	96.5	70-130	3.35	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	200		"	200		99.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Origins Laboratory, Inc.



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

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

Jeremy Espinoza
Project Number: 09A1417392
Project: KMG - PSC 15-10 FSV, 24A&4 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 B4H0606 - DTPA Sorbitol Preparation										
Blank (B4H0606-BLK1)					Prepared: 08/06/2024 Analyzed: 08/08/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4H0606-DUP1)					Source: Y407693-01 Prepared: 08/06/2024 Analyzed: 08/08/2024					
Boron	5.20	0.0995	mg/L		5.10			1.98	50	
Batch B4H0607 - DTPA Sorbitol Preparation										
Blank (B4H0607-BLK1)					Prepared: 08/06/2024 Analyzed: 08/08/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4H0607-DUP1)					Source: Y408035-13 Prepared: 08/06/2024 Analyzed: 08/08/2024					
Boron	0.0258	0.0983	mg/L		0.0233			10.1	50	

Origins Laboratory, Inc.



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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 O SA Facility

Saturated Paste - Quality Control

Origins Laboratory, Inc.

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

Batch B4H0718 - Saturated Paste pH/EC

Duplicate (B4H0718-DUP1)		Source: Y408035-01			Prepared: 08/07/2024 Analyzed: 08/08/2024					
pH	7.43		pH Units		7.25			2.45	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: 09A1417392

Project: KMG - PSC 15-10 FSV, 24A&4 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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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